# LNPTM LUBRICOMPTM MFL36S compound

### Polypropylene

#### **SABIC Innovative Plastics**

#### Message:

LNP LUBRICOMP MFL36S is a compound based on Polypropylene resin containing 30% Glass Fiber, 15% PTFE. Added features of this material include: Heat Stabilized, Wear Resistant.

Also known as: LNP\* LUBRICOMP\* Compound MFXL-4036 HS

Product reorder name: MFL36S

Additive Heat Stabilizer PTFE Lubricant (15%)  Features  Good Wear Resistance Heat Stabilized Lubricated  Processing Method Injection Molding  Physical Nominal Value Unit Test Method  Specific Gravity 1.27 g/cm³ ASTM D922  Molding Shrinkage - Flow (24 hr) 0.40 % ASTM D955  Mechanical Nominal Value Unit Test Method  Tensile Nodulus³ 7600 MPa ASTM D638  Tensile Strength (Break) 71.7 MPa ASTM D638  Tensile Strength (Break) 2.9 % ASTM D638  Flexural Modulus 5870 MPa ASTM D638  Flexural Modulus 5870 MPa ASTM D638  Flexural Strength 117 MPa ASTM D638  Flexural Strength 117 MPa ASTM D790  Impact Nominal Value Unit Test Method  Notched Izod Impact (23°C) 91 J/m ASTM D790  Impact Nominal Value Unit Test Method  Notched Izod Impact (23°C) 950 J/m ASTM D812  Linjection Nominal Value Unit  Drying Temperature 8.2.2 °C  Drying Temperature 4.0 hr  Rear Temperature 193 to 204 °C  Front Temperature 238 to 249 °C  Mold Temperature 227 to 249 °C  Mold Temperature 227 to 249 °C  Mold Temperature 32.2 to 48.9 °C	General Information			
Features   Good Wear Resistance   Heat Stabilized   Lubricated	Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Features Good Wear Resistance Heat Stabilized Lubricated  Processing Method Injection Molding  Physical Nominal Value Unit Test Method  Specific Gravity 1.27 g/cm³ ASTM D792  Molding Shrinkage - Flow (24 hr) 0.40 % ASTM D955  Mechanical Nominal Value Unit Test Method  Tensile Modulus ¹ 7600 MPa ASTM D638  Tensile Modulus ¹ 77600 MPa ASTM D638  Tensile Strength (Break) 7.17 MPa ASTM D638  Tensile Elongation (Break) 2.9 % ASTM D638  Flexural Modulus 5870 MPa ASTM D638  Flexural Modulus 5870 MPa ASTM D790  Flexural Strength 117 MPa ASTM D790  Impact Nominal Value Unit Test Method  Notched Izod Impact (23°C) 91 J/m ASTM D256  Unnotched Izod Impact (23°C) 590 J/m ASTM D4812  Injection Nominal Value Unit  Test Method  Notrined Izod Impact (23°C) 590 J/m ASTM D4812  Injection Nominal Value Unit  Prying Temperature 8.2.2 °C  Unnotched Izod Impact (23°C) 590 J/m ASTM D4812  Injection Nominal Value Chit  Prying Temperature 193 to 204 °C  Middle Temperature 216 to 227 °C  Front Temperature 238 to 249 °C  Front Temperature 238 to 249 °C  Mold Temperature 32.2 to 48.9 °C  Mold Temperature 0.172 to 0.344 MPa	Additive	Heat Stabilizer		
Heat Stabilized   Lubricated   Lubricated		PTFE Lubricant (15%)		
Heat Stabilized   Lubricated   Lubricated				
Processing Method   Injection Molding	Features	Good Wear Resistance		
Processing Method         Injection Molding           Physical         Nominal Value         Unit         Test Method           Specific Gravity         1.27         g/cm²         ASTM D792           Molding Shrinkage - Flow (24 hr)         0.40         %         ASTM D955           Mechanical         Nominal Value         Unit         Test Method           Tensile Modulus <sup>1</sup> 7600         MPa         ASTM D638           Tensile Etrength (Break)         71.7         MPa         ASTM D638           Tensile Elongation (Break)         2.9         %         ASTM D638           Flexural Modulus         5870         MPa         ASTM D638           Flexural Strength         117         MPa         ASTM D790           Impact         Nominal Value         Unit         Test Method           Notched Izod Impact (23°C)         91         J/m         ASTM D256           Unnotched Izod Impact (23°C)         590         J/m         ASTM D4812           Injection         Nominal Value         Unit         Unit           Drying Temperature         82.2         °C           Drying Time         4.0         hr           Rear Temperature         193 to 204         °C      <		Heat Stabilized		
Physical         Nominal Value         Unit         Test Method           Specific Gravity         1.27         g/cm³         ASTM D792           Molding Shrinkage - Flow (24 hr)         0.40         %         ASTM D955           Mechanical         Nominal Value         Unit         Test Method           Tensile Modulus ¹         7600         MPa         ASTM D638           Tensile Strength (Break)         71.7         MPa         ASTM D638           Tensile Elongation (Break)         2.9         %         ASTM D638           Flexural Modulus         5870         MPa         ASTM D90           Elexural Strength         117         MPa         ASTM D790           Impact         Nominal Value         Unit         Test Method           Notched Izod Impact (23°C)         91         J/m         ASTM D256           Unnotched Izod Impact (23°C)         590         J/m         ASTM D4812           Unipection         Nominal Value         Unit         Unit           Drying Temperature         82.2         °C           Drying Time         4.0         hr         ***           Rear Temperature         216 to 227         °C         ***           Front Temperature <t< td=""><td colspan="3">Lubricated</td></t<>		Lubricated		
Physical         Nominal Value         Unit         Test Method           Specific Gravity         1.27         g/cm³         ASTM D792           Molding Shrinkage - Flow (24 hr)         0.40         %         ASTM D955           Mechanical         Nominal Value         Unit         Test Method           Tensile Modulus ¹         7600         MPa         ASTM D638           Tensile Strength (Break)         71.7         MPa         ASTM D638           Tensile Elongation (Break)         2.9         %         ASTM D638           Flexural Modulus         5870         MPa         ASTM D90           Elexural Strength         117         MPa         ASTM D790           Impact         Nominal Value         Unit         Test Method           Notched Izod Impact (23°C)         91         J/m         ASTM D256           Unnotched Izod Impact (23°C)         590         J/m         ASTM D4812           Unipection         Nominal Value         Unit         Unit           Drying Temperature         82.2         °C           Drying Time         4.0         hr         ***           Rear Temperature         216 to 227         °C         ***           Front Temperature <t< td=""><td></td><td></td><td></td><td></td></t<>				
Specific Gravity         1.27         g/cm³         ASTM D792           Molding Shrinkage - Flow (24 hr)         0.40         %         ASTM D955           Mechanical         Nominal Value         Unit         Test Method           Tensile Modulus <sup>1</sup> 7600         MPa         ASTM D638           Tensile Strength (Break)         71.7         MPa         ASTM D638           Tensile Elongation (Break)         2.9         %         ASTM D638           Flexural Modulus         5870         MPa         ASTM D790           Flexural Strength         117         MPa         ASTM D790           Impact         Nominal Value         Unit         Test Method           Notched Izod Impact (23°C)         91         J/m         ASTM D256           Unnotched Izod Impact (23°C)         91         J/m         ASTM D4812           Injection         Nominal Value         Unit         Long Method           Drying Temperature         82.2         °C           Drying Time         4.0         hr           Rear Temperature         193 to 204         °C           Widdle Temperature         238 to 249         °C           Front Temperature         238 to 249         °C	Processing Method	Injection Molding		
Molding Shrinkage - Flow (24 hr)         0.40         %         ASTM D955           Mechanical         Nominal Value         Unit         Test Method           Tensile Modulus 1         7600         MPa         ASTM D638           Tensile Strength (Break)         71.7         MPa         ASTM D638           Tensile Elongation (Break)         2.9         %         ASTM D638           Flexural Modulus         5870         MPa         ASTM D790           Flexural Strength         117         MPa         ASTM D790           Impact         Nominal Value         Unit         Test Method           Notched Izod Impact (23°C)         91         J/m         ASTM D256           Unnotched Izod Impact (23°C)         91         J/m         ASTM D4812           Injection         Nominal Value         Unit         Unit           Drying Temperature         82.2         *C           Drying Time         4.0         hr           Rear Temperature         193 to 204         *C           Middle Temperature         238 to 249         *C           Front Temperature         238 to 249         *C           Mold Temperature         32.2 to 48.9         *C           Mold Temperature <td>Physical</td> <td>Nominal Value</td> <td>Unit</td> <td>Test Method</td>	Physical	Nominal Value	Unit	Test Method
Mechanical Nominal Value Unit Test Method Tensile Modulus 1 7600 MPa ASTM D638 Tensile Strength (Break) 71.7 MPa ASTM D638 Tensile Elongation (Break) 2.9 % ASTM D638 Flexural Modulus 5870 MPa ASTM D790 Flexural Strength 117 MPa ASTM D790 Impact Nominal Value Unit Test Method Notched Izod Impact (23°C) 91 J/m ASTM D256 Unnotched Izod Impact (23°C) 590 J/m ASTM D256 Unnotched Izod Impact (23°C) 590 J/m ASTM D4812 Injection Nominal Value Unit Drying Temperature 82.2 °C Drying Time 4.0 hr Rear Temperature 193 to 204 °C Middle Temperature 216 to 227 °C Front Temperature 238 to 249 °C Mold Temperature 32.2 to 48.9 °C Back Pressure 0.172 to 0.344 MPa	Specific Gravity	1.27	g/cm³	ASTM D792
Tensile Modulus <sup>1</sup> 7600         MPa         ASTM D638           Tensile Strength (Break)         71.7         MPa         ASTM D638           Tensile Elongation (Break)         2.9         %         ASTM D638           Flexural Modulus         5870         MPa         ASTM D790           Flexural Strength         117         MPa         ASTM D790           Impact         Nominal Value         Unit         Test Method           Notched Izod Impact (23°C)         91         J/m         ASTM D256           Unnotched Izod Impact (23°C)         590         J/m         ASTM D4812           Injection         Nominal Value         Unit         Tensile Elongation (Break)           Drying Temperature         82.2         °C           Drying Time         4.0         hr           Rear Temperature         193 to 204         °C           Middle Temperature         216 to 227         °C           Front Temperature         238 to 249         °C           Processing (Melt) Temp         227 to 249         °C           Mold Temperature         32.2 to 48.9         °C           Back Pressure         0.172 to 0.344         MPa	Molding Shrinkage - Flow (24 hr)	0.40	%	ASTM D955
Tensile Strength (Break)         71.7         MPa         ASTM D638           Tensile Elongation (Break)         2.9         %         ASTM D638           Flexural Modulus         5870         MPa         ASTM D790           Flexural Strength         117         MPa         ASTM D790           Impact         Nominal Value         Unit         Test Method           Notched Izod Impact (23°C)         91         J/m         ASTM D256           Unnotched Izod Impact (23°C)         590         J/m         ASTM D4812           Injection         Nominal Value         Unit           Drying Temperature         82.2         °C           Drying Time         4.0         hr           Rear Temperature         193 to 204         °C           Middle Temperature         216 to 227         °C           Front Temperature         238 to 249         °C           Processing (Melt) Temp         227 to 249         °C           Mold Temperature         32.2 to 48.9         °C           Back Pressure         0.172 to 0.344         MPa	Mechanical	Nominal Value	Unit	Test Method
Tensile Elongation (Break)         2.9         %         ASTM D638           Flexural Modulus         5870         MPa         ASTM D790           Flexural Strength         117         MPa         ASTM D790           Impact         Nominal Value         Unit         Test Method           Notched Izod Impact (23°C)         91         J/m         ASTM D256           Unnotched Izod Impact (23°C)         590         J/m         ASTM D4812           Injection         Nominal Value         Unit           Drying Temperature         82.2         °C           Drying Time         4.0         hr           Rear Temperature         193 to 204         °C           Middle Temperature         216 to 227         °C           Front Temperature         238 to 249         °C           Processing (Melt) Temp         227 to 249         °C           Mold Temperature         32.2 to 48.9         °C           Back Pressure         0.172 to 0.344         MPa	Tensile Modulus <sup>1</sup>	7600	МРа	ASTM D638
Flexural Modulus         5870         MPa         ASTM D790           Flexural Strength         117         MPa         ASTM D790           Impact         Nominal Value         Unit         Test Method           Notched Izod Impact (23°C)         91         J/m         ASTM D256           Unnotched Izod Impact (23°C)         590         J/m         ASTM D4812           Injection         Nominal Value         Unit           Drying Temperature         82.2         °C           Drying Time         4.0         hr           Rear Temperature         193 to 204         °C           Middle Temperature         216 to 227         °C           Front Temperature         238 to 249         °C           Processing (Melt) Temp         227 to 249         °C           Mold Temperature         32.2 to 48.9         °C           Mold Temperature         0.172 to 0.344         MPa	Tensile Strength (Break)	71.7	MPa	ASTM D638
Flexural Strength         117         MPa         ASTM D790           Impact         Nominal Value         Unit         Test Method           Notched Izod Impact (23°C)         91         J/m         ASTM D256           Unnotched Izod Impact (23°C)         590         J/m         ASTM D4812           Injection         Nominal Value         Unit           Drying Temperature         82.2         °C           Drying Time         4.0         hr           Rear Temperature         193 to 204         °C           Middle Temperature         216 to 227         °C           Front Temperature         238 to 249         °C           Processing (Melt) Temp         227 to 249         °C           Mold Temperature         32.2 to 48.9         °C           Back Pressure         0.172 to 0.344         MPa	Tensile Elongation (Break)	2.9	%	ASTM D638
Impact         Nominal Value         Unit         Test Method           Notched Izod Impact (23°C)         91         J/m         ASTM D256           Unnotched Izod Impact (23°C)         590         J/m         ASTM D4812           Injection         Nominal Value         Unit           Drying Temperature         82.2         °C           Drying Time         4.0         hr           Rear Temperature         193 to 204         °C           Middle Temperature         216 to 227         °C           Front Temperature         238 to 249         °C           Processing (Melt) Temp         227 to 249         °C           Mold Temperature         32.2 to 48.9         °C           Back Pressure         0.172 to 0.344         MPa	Flexural Modulus	5870	MPa	ASTM D790
Notched Izod Impact (23°C)       91       J/m       ASTM D256         Unnotched Izod Impact (23°C)       590       J/m       ASTM D4812         Injection       Nominal Value       Unit         Drying Temperature       82.2       °C         Drying Time       4.0       hr         Rear Temperature       193 to 204       °C         Middle Temperature       216 to 227       °C         Front Temperature       238 to 249       °C         Processing (Melt) Temp       227 to 249       °C         Mold Temperature       32.2 to 48.9       °C         Back Pressure       0.172 to 0.344       MPa	Flexural Strength	117	MPa	ASTM D790
Unnotched Izod Impact (23°C)         590         J/m         ASTM D4812           Injection         Nominal Value         Unit           Drying Temperature         82.2         °C           Drying Time         4.0         hr           Rear Temperature         193 to 204         °C           Middle Temperature         216 to 227         °C           Front Temperature         238 to 249         °C           Processing (Melt) Temp         227 to 249         °C           Mold Temperature         32.2 to 48.9         °C           Back Pressure         0.172 to 0.344         MPa	Impact	Nominal Value	Unit	Test Method
Injection Nominal Value Unit  Drying Temperature 82.2 °C  Drying Time 4.0 hr  Rear Temperature 193 to 204 °C  Middle Temperature 216 to 227 °C  Front Temperature 238 to 249 °C  Processing (Melt) Temp 227 to 249 °C  Mold Temperature 32.2 to 48.9 °C  Back Pressure 0.172 to 0.344 MPa	Notched Izod Impact (23°C)	91	J/m	ASTM D256
Drying Temperature 82.2 °C  Drying Time 4.0 hr  Rear Temperature 193 to 204 °C  Middle Temperature 216 to 227 °C  Front Temperature 238 to 249 °C  Processing (Melt) Temp 227 to 249 °C  Mold Temperature 32.2 to 48.9 °C  Back Pressure 0.172 to 0.344 MPa	Unnotched Izod Impact (23°C)	590	J/m	ASTM D4812
Drying Time 4.0 hr Rear Temperature 193 to 204 °C Middle Temperature 216 to 227 °C Front Temperature 238 to 249 °C Processing (Melt) Temp 227 to 249 °C Mold Temperature 32.2 to 48.9 °C Back Pressure 0.172 to 0.344 MPa	Injection	Nominal Value	Unit	
Rear Temperature 193 to 204 °C Middle Temperature 216 to 227 °C Front Temperature 238 to 249 °C Processing (Melt) Temp 227 to 249 °C Mold Temperature 32.2 to 48.9 °C Back Pressure 0.172 to 0.344 MPa	Drying Temperature	82.2	°C	
Middle Temperature 216 to 227 °C  Front Temperature 238 to 249 °C  Processing (Melt) Temp 227 to 249 °C  Mold Temperature 32.2 to 48.9 °C  Back Pressure 0.172 to 0.344 MPa	Drying Time	4.0	hr	
Front Temperature 238 to 249 °C Processing (Melt) Temp 227 to 249 °C Mold Temperature 32.2 to 48.9 °C Back Pressure 0.172 to 0.344 MPa	Rear Temperature	193 to 204	°C	
Processing (Melt) Temp 227 to 249 °C Mold Temperature 32.2 to 48.9 °C Back Pressure 0.172 to 0.344 MPa	Middle Temperature	216 to 227	°C	
Mold Temperature 32.2 to 48.9 °C  Back Pressure 0.172 to 0.344 MPa	Front Temperature	238 to 249	°C	
Back Pressure 0.172 to 0.344 MPa	Processing (Melt) Temp	227 to 249	°C	
	Mold Temperature	32.2 to 48.9	°C	
Screw Speed 30 to 60 rpm	Back Pressure	0.172 to 0.344	MPa	
	Screw Speed	30 to 60	rpm	

NOTE

1. 50 mm/min

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