

LNP™ LUBRILOY™ D20009 compound

Polycarbonate

SABIC Innovative Plastics

Message:

LNP LUBRILOY* D20009 is a compound based on Polycarbonate resin containing Proprietary Lubricant. Added features of this material include: Flame Retardant, Wear Resistant.

Also known as: LNP* LUBRILOY* Compound D-FR

Product reorder name: D20009

General Information			
UL YellowCard	E121562-101283870		
Additive	Lubricant		
Features	Flame Retardant		
	Good Wear Resistance		
	Lubricated		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.23	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.60 to 0.80	%	
Across Flow : 24 hr	0.60 to 0.80	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	62.0	MPa	ASTM D638
Tensile Elongation (Break)	84	%	ASTM D638
Flexural Modulus	2290	MPa	ASTM D790
Flexural Strength	87.1	MPa	ASTM D790
Coefficient of Friction			ASTM D3702 Modified
vs. Itself - Dynamic	0.25		
vs. Itself - Static	0.13		
Wear Factor - Washer	56.0	10^-10 in^5-min/ft-lb-hr	ASTM D3702 Modified
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	700	J/m	ASTM D256
Unnotched Izod Impact (23°C)	No Break		ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.20 mm)	121	°C	ASTM D648
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
1.50 mm, Testing by SABIC	V-2		
3.00 mm, Testing by SABIC	V-0		

Injection	Nominal Value	Unit
Drying Temperature	100	°C
Drying Time	4.0	hr
Suggested Max Moisture	0.020	%
Rear Temperature	293 to 304	°C
Middle Temperature	299 to 310	°C
Front Temperature	304 to 316	°C
Processing (Melt) Temp	304 to 316	°C
Mold Temperature	65.6 to 93.3	°C
Back Pressure	0.172 to 0.344	MPa
Screw Speed	30 to 60	rpm

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