# **KOPELEN JH-380**

### Polypropylene Impact Copolymer Lotte Chemical Corporation

#### Message:

General Information

JH-380 is high impact block copolymer with high ethylene content as co-monomer.

This grade is designed to be processed in conventional Injection molding equipment and base resin for compounding. JH-380 shows very high melt flow, controlled rheology and has good impact resistance and high strength and stiffness.

Controlled Rheology Good Impact Resistance High Stiffness High Stiffness High Stiffness High Stiffness Appliances Automotive Applications Compounding ROHS Compliance ROHS Compliance ROHS Compliance Processing Method Injection Molding Injection Molding Injection Molding Specific Gravity Roy Roy Roy Roy Roy Roy Roy Roy Roy Ro	Features	Block Copolymer		
High Flow High Striffness High Strength  Uses Appliances Automotive Applications Compounding  RoHS Compliant  Processing Method Compounding Injection Molding Physical Nominal Value Unit Test Method Specific Gravity 0,900 g/cm³ ASTM D792 Melt Mass-Flow Rate (MFR) (230°C/2.16' kg) 65 Gy/10 min ASTM D1238 Mechanical Nominal Value Unit Test Method Tensile Strength (Yield) 22.6 MPa ASTM D793 MPa ASTM D638 Tensile Iongation (Break) 1080 MPa ASTM D790 Impact Nominal Value Unit Test Method ASTM D638 Tensile Iongation (Break) 1080 MPa ASTM D790 Impact Nominal Value Unit Test Method Deflection Temperature Under Load (0.45' MPa 23°C 93 J/m Thermal Deflection Temperature Under Load (0.45' MPa, Unannealed) Nominal Value Test Method Deflection Temperature Under Load (0.45' MPa, Unannealed) Nominal Value Test Method		Controlled Rheology		
High Strength  Appliances Automotive Applications Compounding  RoHS Compliante  RoHS Compliante  RoHS Compliante  RoHS Compliante  Processing Method  Compounding Injection Molding  Physical  Nominal Value  Unit  Test Method  Specific Gravity  0,900  g/cm³  ASTM D792  Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)  Kg)  65  g/10 min  ASTM D792  Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)  Roechanical  Nominal Value  Unit  Test Method  ASTM D792  Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)  Roechanical  Nominal Value  Unit  Test Method  ASTM D638  Tensile Elongation (Break)  100  MPa  ASTM D790  Impact  Nominal Value  Unit  Test Method  ASTM D790  Impact  Nominal Value  Unit  Test Method  ASTM D790  Impact  Nominal Value  Unit  Test Method  ASTM D790  Impact  ASTM D790  Impact  Nominal Value  Unit  Test Method  Deflection Temperature Under Load (0.45 kg)  MPa  3°C  ASTM D648  Planuannealed)  Nominal Value  Test Method		Good Impact Resistance		
High Strength   High Strengt		High Flow		
Uses Appliances Automotive Applications Compounding  ROHS Compliance ROHS Compliant  Processing Method Compounding Injection Molding  Physical Nominal Value Unit Test Method  Specific Gravity 0.900 g/cm³ ASTM D792  Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) g/10 min ASTM D1238  Mechanical Nominal Value Unit Test Method  Tensile Strength (Yield) 2.66 MPa ASTM D638  Flexural Modulus 1080 MPa ASTM D638  Flexural Modulus 1080 MPa ASTM D790  Impact Nominal Value Unit Test Method  Notched Izod Impact Nominal Value Unit Test Method  Notched Izod Impact Nominal Value Unit Test Method  Notched Izod Impact Nominal Value Unit Test Method  Pelaural Modulus 1080 MPa ASTM D638  Flexural Modulus 1080 MPa ASTM D790  Impact Nominal Value Unit Test Method  Deflection Temperature Under Load (0.45 MPa ASTM D256  —10°C 49 J/m  Thermal Nominal Value Unit Test Method  Deflection Temperature Under Load (0.45 MPa, Unannealed) Voil Test Method  Deflection Temperature Under Load (0.45 MPa, Unannealed) Voil Test Method  Deflection Temperature Under Load (0.45 MPa, Unannealed) Voil Test Method  Deflection Temperature Under Load (0.45 MPa, Unannealed) Voil Test Method  Deflection Temperature Under Load (0.45 MPa, Unannealed) Voil Test Method  Deflection Temperature Under Load (0.45 MPa, Unannealed) Voil Test Method		High Stiffness		
Automotive Applications Compounding  ROHS Compliance ROHS Compliant  Processing Method Compounding Injection Molding  Physical Nominal Value Unit Test Method Specific Gravity 0,900 9/cm³ ASTM D792  Melt Mass-Flow Rate (MFR) (230°C/2.16* kg) 65 9/10 min ASTM D1238  Mechanical Nominal Value Unit Test Method  ASTM D1238  Mechanical Nominal Value Unit Test Method  Tensile Strength (Yield) 22.6 MPa ASTM D638  Tensile Elongation (Break) 1080 MPa ASTM D638  Flexural Modulus 1080 MPa ASTM D568  Flexural Modulus 1080 MPa ASTM D568  Flexural Modulus 1080 MPa ASTM D256  -10°C 49 3//m  Test Method  Deflection Temperature Under Load (0.45) MPa, Unannealed) 100 °C ASTM D648  Flexumandel() 100 **C ASTM D648  Flexuma		High Strength		
ROHS Compliance RoHS Compliant  Processing Method Compounding  Physical Nominal Value Unit Test Method  Specific Gravity 0,900 g/cm³ ASTM D792  Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) 65 g/10 min ASTM D792  Methodical Nominal Value Unit Test Method  Tensile Strength (Yield) 22.6 MPa ASTM D638  Tensile Elongation (Break) > 10 % ASTM D638  Flexural Modulus 1080 MPa ASTM D638  Flexural Flexural Modulus 1080 MPa ASTM D638  Flexural Flexural Modulus 1080 MPa ASTM D638  Flexural Flexural Modulus 1080 MPa ASTM D638  Flexural Modulus 1080 MPa ASTM D648  Flexural Mod	Uses	Appliances		
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Processing Method  Compounding Injection Molding  Physical  Nominal Value  Unit  Test Method  Specific Gravity  0,900  Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)  Kg)  65  g/10 min  ASTM D1238  Mechanical  Nominal Value  Unit  Test Method  Tensile Strength (Yield)  22.6  MPa  ASTM D638  Tensile Elongation (Break)  > 10  %  ASTM D638  Flexural Modulus  1080  MPa  ASTM D638  Flexural Modulus  1080  MPa  ASTM D790  Impact  Nominal Value  Unit  Test Method  Notched Izod Impact  ASTM D790  Impact  Nominal Value  Unit  Test Method  Notched Izod Impact  -10°C  49  J/m  23°C  93  J/m  Thermal  Nominal Value  Unit  Test Method  Deflection Temperature Under Load (0.45 MPa, Unannealed)  Nominal Value  Test Method  ASTM D648  Flammability  Nominal Value  Test Method				
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Physical         Nominal Value         Unit         Test Method           Specific Gravity         0.900         g/cm³         ASTM D792           Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)         65         g/10 min         ASTM D1238           Mechanical         Nominal Value         Unit         Test Method           Tensile Strength (Yield)         22.6         MPa         ASTM D638           Tensile Elongation (Break)         > 10         %         ASTM D638           Flexural Modulus         1080         MPa         ASTM D790           Impact         Nominal Value         Unit         Test Method           Notched Izod Impact         49         J/m         ASTM D256           -10°C         49         J/m         Test Method           23°C         93         J/m         Test Method           Deflection Temperature Under Load (0.45 MPa, Unannealed)         Nominal Value         Unit         Test Method           Flammability         Nominal Value         °C         ASTM D648	Processing Method	Compounding		
Specific Gravity         0.900         g/cm³         ASTM D792           Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)         5         g/10 min         ASTM D1238           Mechanical         Nominal Value         Unit         Test Method           Tensile Strength (Yield)         22.6         MPa         ASTM D638           Tensile Elongation (Break)         > 10         %         ASTM D638           Flexural Modulus         1080         MPa         ASTM D790           Impact         Nominal Value         Unit         Test Method           Notched Izod Impact         49         J/m           -10°C         49         J/m           23°C         93         J/m           Thermal         Nominal Value         Unit         Test Method           Deflection Temperature Under Load (0.45 MPa, Unannealed)         Nominal Value         °C         ASTM D648           Flammability         Nominal Value         Test Method		Injection Molding		
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)         65         g/10 min         ASTM D1238           Mechanical         Nominal Value         Unit         Test Method           Tensile Strength (Yield)         22.6         MPa         ASTM D638           Tensile Elongation (Break)         > 10         %         ASTM D638           Flexural Modulus         1080         MPa         ASTM D790           Impact         Nominal Value         Unit         Test Method           Notched Izod Impact         49         J/m         ASTM D256           -10°C         49         J/m         Thermal         Nominal Value         Unit         Test Method           Deflection Temperature Under Load (0.45 MPa, Unannealed)         100         °C         ASTM D648           Flammability         Nominal Value         Test Method	Physical	Nominal Value	Unit	Test Method
kg)         65         g/10 min         ASTM D1238           Mechanical         Nominal Value         Unit         Test Method           Tensile Strength (Yield)         22.6         MPa         ASTM D638           Tensile Elongation (Break)         > 10         MPa         ASTM D638           Flexural Modulus         1080         MPa         ASTM D790           Impact         Nominal Value         Unit         Test Method           ASTM D256         -10°C         49         J/m           23°C         93         J/m         Test Method           Deflection Temperature Under Load (0.45 MPa, Unannealed)         Nominal Value         Unit         Test Method           Flammability         Nominal Value         °C         ASTM D648	Specific Gravity	0.900	g/cm³	ASTM D792
Tensile Strength (Yield) 22.6 MPa ASTM D638  Tensile Elongation (Break) > 10 % ASTM D638  Flexural Modulus 1080 MPa ASTM D790  Impact Nominal Value Unit Test Method  Notched Izod Impact 49 J/m  23°C 49 J/m  Thermal Nominal Value Unit Test Method  Deflection Temperature Under Load (0.45 MPa, Unannealed) 100 °C ASTM D648  Flammability Nominal Value Test Method		65	g/10 min	ASTM D1238
Tensile Elongation (Break) > 10 % ASTM D638  Flexural Modulus 1080 MPa ASTM D790  Impact Nominal Value Unit Test Method  Notched Izod Impact 49 J/m  23°C 93 J/m  Thermal Nominal Value Unit Test Method  Deflection Temperature Under Load (0.45 MPa, Unannealed) Nominal Value Cast Method  Flammability Nominal Value Test Method  Test Method  Test Method  Test Method	Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus 1080 MPa ASTM D790  Impact Nominal Value Unit Test Method  Notched Izod Impact ASTM D256  -10°C 49 J/m  23°C 93 J/m  Thermal Nominal Value Unit Test Method  Deflection Temperature Under Load (0.45 MPa, Unannealed) 100 °C ASTM D648  Flammability Nominal Value Test Method	Tensile Strength (Yield)	22.6	MPa	ASTM D638
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Notched Izod Impact -10°C 49 J/m 23°C 93 J/m  Thermal Nominal Value Unit Test Method  Deflection Temperature Under Load (0.45 MPa, Unannealed) 100 °C ASTM D648  Flammability Nominal Value Test Method	Flexural Modulus	1080	MPa	ASTM D790
-10°C49J/m23°C93J/mThermalNominal ValueUnitTest MethodDeflection Temperature Under Load (0.45 MPa, Unannealed)100°CASTM D648FlammabilityNominal ValueTest Method	Impact	Nominal Value	Unit	Test Method
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Thermal Nominal Value Unit Test Method  Deflection Temperature Under Load (0.45 MPa, Unannealed) 100 °C ASTM D648  Flammability Nominal Value Test Method	-10°C	49	J/m	
Deflection Temperature Under Load (0.45 MPa, Unannealed) 100 °C ASTM D648 Flammability Nominal Value Test Method	23°C	93	J/m	
MPa, Unannealed) 100 °C ASTM D648 Flammability Nominal Value Test Method	Thermal	Nominal Value	Unit	Test Method
		100	°C	ASTM D648
Flame Rating HB UL 94	Flammability	Nominal Value		Test Method
	Flame Rating	НВ		UL 94

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