

HOPELEN JC-160

Polypropylene Homopolymer
Lotte Chemical Corporation

Message:

JC-160 is homo polymer resin produced through the polymerization of propylene. This grade is designed to be processed in conventional Injection molding equipment. JC-160 shows good thermal stability and has high strength and stiffness. It is typically used in production of housewares and the general supplies. JC-160 is highly useful for use in high strength products which are exposed to lengthy periods of high temperatures. (UL746b authentication is in progress.)

General Information			
Features	Good Thermal Stability		
	High Stiffness		
	High Strength		
	Homopolymer		
Uses	Household Goods		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.900	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	20	g/10 min	ASTM D1238, ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Yield	39.2	MPa	ASTM D638
Yield	36.3	MPa	ISO 527-2
Tensile Elongation (Break)	< 100	%	ASTM D638, ISO 527-2
Flexural Modulus			
--	2060	MPa	ASTM D790
--	1570	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
-10°C	15	J/m	ISO 180
-10°C	20	J/m	ASTM D256
23°C	34	J/m	ASTM D256
23°C	29	J/m	ISO 180
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed	140	°C	ASTM D648
0.45 MPa, Unannealed	120	°C	ISO 75-2/B

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