

HOPELEN JC-160

PP HOMOPOLYMER

General Information

Description

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.)

Applications

- ◆Housewares and general supplies

Physical Properties¹

Physical	Test Method	Nominal Values			
Melt Flow Index	ASTM D1238	20	g/10min		
Density	ASTM D792	0.90	g/cm ³		
Mechanical					
Tensile Stress (Yield)	ASTM D638	400	kgf/cm ²	39	MPa
Tensile Strain (Break)	ASTM D638	<100	%	<100	%
Flexural Modulus	ASTM D790	21,000	kgf/cm ²	2,060	MPa
Impact					
Notched Izod Impact Strength (23℃)	ASTM D256	3.5	kgf-cm/cm	34	J/m
Notched Izod Impact Strength (-10℃)	ASTM D256	2.0	kgf-cm/cm	20	J/m
Thermal					
Heat Deflection Temperature (4.6kgf/cm ²)	ASTM D648	140	℃		

NOTE

ISO 9001, 14001, /TS 16949

¹ Physical Properties : these are not to be construed as specifications

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Applications

- ◆ Housewares and general supplies

Physical Properties¹

Physical	Test Method	Nominal Values			
Melt Flow Index	ISO 1133	20	g/10min		
Density	ISO 1183	0.90	g/cm ³		
Mechanical					
Tensile Stress (Yield)	ISO 527-1	370	kgf/cm ²	36	MPa
Tensile Strain (Break)	ISO 527-1	<100	%	<100	%
Flexural Modulus	ISO 178	16,000	kgf/cm ²	1,570	MPa
Impact					
Notched Izod Impact Strength (23℃)	ISO 180	3.0	kgf·cm/cm	29	J/m
Notched Izod Impact Strength (-10℃)	ISO 180	1.5	kgf·cm/cm	15	J/m
Thermal					
Heat Deflection Temperature (4.6kgf/cm ²)	ISO 75-1	120	℃		

NOTE

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