LOTTE CHEMICAL

HOPELEN SJ-160   PP HOMOPOLYMER

General Information

● Description

SJ-160 is homo polymer resin produced through the polymerization of propylene. This grade is designed to be processed in conventional Injection molding equipment. SJ-160 shows good thermal stability and has high strength and stiffness. It is typically used in production of housewares and the general supplies.

● Applications

◆**Housewares and general supplies**

Physical Properties[1]

Physical	Test Method	Nominal Values			
Melt Flow Index	ASTM D1238	16	g/10min		
Density	ASTM D792	0.90	g/cm^3		
Mechanical					
Tensile Stress (Yield)	ASTM D638	350	kgf/cm^2	34	MPa
Tensile Strain (Break)	ASTM D638	>100	%	>100	%
Flexural Modulus	ASTM D790	15,000	kgf/cm^2	1,470	MPa
Impact					
Notched Izod Impact Strength (23℃)	ASTM D256	3.0	kgf·cm/cm	29	J/m
Notched Izod Impact Strength (-10℃)	ASTM D256	2.5	kgf·cm/cm	25	J/m
Thermal					
Heat Deflection Temperature (4.6kgf/cm^2)	ASTM D648	105	℃		

NOTE   ISO 9001, 14001, /TS 16949

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

LOTTE CHEMICAL

HOPELEN SJ-160

PP HOMOPOLYMER

General Information

● Description

SJ-160 is homo polymer resin produced through the polymerization of propylene. This grade is designed to be processed in conventional Injection molding equipment. SJ-160 shows good thermal stability and has high strength and stiffness. It is typically used in production of housewares and the general supplies.

● Applications

◆ **Housewares and general supplies**

Physical Properties[1]

Physical	Test Method	Nominal Values			
Melt Flow Index	**ISO 1133**	**16**	g/10min		
Density	**ISO 1183**	**0.90**	g/cm^3		
Mechanical					
Tensile Stress (Yield)	**ISO 527-1**	**330**	kgf/cm^2	**32**	MPa
Tensile Strain (Break)	**ISO 527-1**	**>100**	%	**>100**	%
Flexural Modulus	**ISO 178**	**12,000**	kgf/cm^2	**1,180**	MPa
Impact					
Notched Izod Impact Strength (23℃)	**ISO 180**	**2.5**	kgf·cm/cm	**25**	J/m
Notched Izod Impact Strength (-10℃)	**ISO 180**	**2.0**	kgf·cm/cm	**20**	J/m
Thermal					
Heat Deflection Temperature (4.6kgf/cm^2)	**ISO 75-1**	**85**	℃		

NOTE

ISO 9001, 14001, /TS 16949

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