

LOTTE CHEMICAL

January, 2013

HOPELEN H1500

PP HOMOPOLYMER

General Information

Description

H1500 is homo polymer resin produced through the polymerization of propylene. This grade is designed to be processed in conventional injection molding equipment and offers high stiffness, heat stability, scratch resistance and high surface gloss.

Applications

- ◆ Home appliances, Food container, Watercloset cover
- ◆ Small-sized E&E parts

Physical Properties¹

Physical	Test Method	Nominal Values			
Melt Flow Index	ASTM D1238	12	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 °C)	ASTM D256	3.0	kgf-cm/cm	29	J/m
Notched Izod Impact Strength (-10 °C)	ASTM D256	2.5	kgf-cm/cm	25	J/m
Thermal					
Heat Deflection Temperature (4.6kgf/cm ²)	ASTM D648	115	°C		
Additional Properties					
Flammability	UL94	HB			

NOTE

ISO 9001, 14001, /TS 16949

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

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Physical Properties¹

Physical	Test Method	Nominal Values			
Melt Flow Index	ISO 1133	12	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	95	℃		
Additional Properties					
Flammability	UL94	HB			

NOTE

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