

Hanwha Total PP HJ700

Polypropylene Homopolymer
HANWHA TOTAL PETROCHEMICALS Co., Ltd.

Message:
HJ700 is a homo polypropylene resin for injection molding applications. This grade is designed to be processed in conventional injection molding equipment.

General Information			
UL YellowCard	E140331-222940		
Features	Rigidity, high		
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	Highlight		
	Homopolymer		
	Good liquidity		
	Scratch resistance		
	Heat resistance, high		
Uses	Kitchen utensils		
	Electrical appliances		
	Household goods		
	Toys		
Agency Ratings	FDA 21 CFR 177.1520(a) 1 (i)		
	FDA 21 CFR 177.1520(b)		
	FDA 21 CFR 177.1520(c) 1.1a		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.910	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	22	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	100		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	37.3	MPa	ASTM D638
Tensile Elongation (Break)	250	%	ASTM D638
Flexural Modulus	1670	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
0°C	20	J/m	ASTM D256

23°C	29	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	110	°C	ASTM D648
Vicat Softening Temperature	155	°C	ASTM D1525 ¹
Injection	Nominal Value	Unit	
Rear Temperature	170 - 200	°C	
Middle Temperature	180 - 210	°C	
Front Temperature	210 - 250	°C	
Mold Temperature	30.0 - 50.0	°C	
Injection Pressure	78.5 - 118	MPa	
Holding Pressure	58.8 - 98.1	MPa	
Injection instructions			
Cooling Time: 25 to 40 sec			
NOTE			

1. 压力1 (10N)

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