

Hanwha Total PP HS120

High Crystallinity Polypropylene

HANWHA TOTAL PETROCHEMICALS Co., Ltd.

Message:

HS120 is a highly isotactic Homo PP (HIPP) with high crystalline properties compared to normal Homo PP, leading to high strength and heat resistance. The characteristics of high strength, heat resistance and transparency endow the final product with an outstanding image.

General Information			
Features	High strength		
	m-benzene dimethyl		
	Crystallization		
	Homopolymer		
	Heat resistance, high		
	Good appearance		
Uses	Industrial application		
	Video tape		
	Sheet		
	Food packaging		
	Stationery		
Appearance	Clear/transparent		
Forms	Particle		
Processing Method	Vacuum forming		
	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)	1.5	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	103		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	42.2	MPa	ASTM D638
Tensile Elongation (Break)	500	%	ASTM D638
Flexural Modulus	2060	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	49	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	130	°C	ASTM D648

Optical	Nominal Value	Unit	Test Method
Gloss	95		ASTM D2457
Haze	48	%	ASTM D1003
Injection	Nominal Value	Unit	
Rear Temperature	180 - 200	°C	
Middle Temperature	190 - 210	°C	
Front Temperature	200 - 220	°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

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