

Hanwha Total PP HI831

High Crystallinity Polypropylene
HANWHA TOTAL PETROCHEMICALS Co., Ltd.

Message:

HI831 is a highly isotactic Homo PP (HIPP) with high crystalline properties compared to normal Homo PP. The product's crystalline properties have enhanced its strength and heat resistance. HI831's high heat resistance makes it useful in the manufacture of containers and thin parts of microwave ovens.

General Information			
Features	Rigidity, high		
	High strength		
	m-benzene dimethyl		
	Crystallization		
	Homopolymer		
	Fast molding cycle		
	High liquidity		
	Scratch resistance		
	Heat resistance, high		
	High hardness		
Uses	Thin wall parts		
	Electrical/Electronic Applications		
	Home appliance components		
	Household goods		
	Application in Automobile Field		
	Car interior equipment		
	Car exterior decoration		
	Container		
Appearance	Clear/transparent		
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)	45	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	105		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	43.1	MPa	ASTM D638
Tensile Elongation (Break)	25	%	ASTM D638

Flexural Modulus	2110	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	26	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	140	°C	ASTM D648
Optical	Nominal Value		Test Method
Gloss	90		ASTM D2457
Injection	Nominal Value	Unit	
Rear Temperature	160 - 200	°C	
Middle Temperature	200 - 240	°C	
Front Temperature	220 - 260	°C	
Mold Temperature	30.0 - 50.0	°C	
Injection Pressure	98.1 - 245	MPa	
Holding Pressure	78.5 - 226	MPa	
Injection instructions			

Cooling Time: 25 to 40 sec

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