

Hanwha Total PP BI830

High Crystallinity Polypropylene
HANWHA TOTAL PETROCHEMICALS Co., Ltd.

Message:

BI830 is a highly isotactic block copolymer with high flowability, high strength, and high crystallinity compared to general PP, and is an RTPO (Reactor made Thermoplastic Polymer Olefin) with a high content of ethylene-propylene rubber. It shows an excellent balance of impact resistance (room temperature Izod NB) and strength due to high crystalline technology and the most appropriate rubber design. BI830 has high flowability due to its high melt index, making the product useful in automobile bumpers and the corresponding compound material for large scale parts.

General Information			
Features	Block Copolymer		
	Ultra-high impact resistance		
	High strength		
	m-benzene dimethyl		
	Crystallization		
	High liquidity		
	Low temperature impact resistance		
	Heat resistance, high		
Uses	Electrical appliances		
	Household goods		
	Car anti-collision bar		
	Car interior parts		
	Car interior equipment		
	Car dashboard		
	Food container		
	Outdoor application		
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)	40	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	40		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	18.6	MPa	ASTM D638
Tensile Elongation (Break)	75	%	ASTM D638
Flexural Modulus	834	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method

Notched Izod Impact			ASTM D256
-20°C	98	J/m	ASTM D256
23°C	590	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	98.0	°C	ASTM D648
Optical	Nominal Value		Test Method
Gloss	60		ASTM D2457
Additional Information			
Dupont Impact Strength, SAMSUNG TOTAL, -20°C: 500 kg/cm			
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			

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

