

Polytron® P50B01

Polypropylene Homopolymer

Polyram Ram-On Industries

Message:

A chemically coupled 50% LGF reinforced black PP, heat stabilized for high temperature applications such as under the hood automotive parts.

General Information			
Filler / Reinforcement	Long Glass Fiber,50% Filler by Weight		
Additive	Heat Stabilizer		
Features	Chemically Coupled		
	Heat Stabilized		
Uses	Automotive Under the Hood		
RoHS Compliance	RoHS Compliant		
Appearance	Black		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.30	g/cm ³	ASTM D792
--	1.31	g/cm ³	ISO 1183
Molding Shrinkage			
Flow	0.20 to 0.30	%	
--	0.20 to 0.30	%	ISO 2577
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	12900	MPa	ASTM D638, ISO 527-2
Tensile Strength (Yield)	135	MPa	ASTM D638, ISO 527-2
Tensile Elongation (Break)	1.7	%	ASTM D638, ISO 527-2
Flexural Modulus	11000	MPa	ASTM D790, ISO 178
Flexural Strength	210	MPa	ASTM D790, ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-30°C	27	kJ/m ²	
23°C	20	kJ/m ²	
Charpy Unnotched Impact Strength (23°C)	70	kJ/m ²	ISO 179
Notched Izod Impact			
23°C	250	J/m	ASTM D256
23°C	25	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	159	°C	ASTM D648, ISO 75-2/A
Melting Temperature	167	°C	ISO 11357-3, ASTM D3418

Flammability	Nominal Value	Unit	Test Method
Flame Rating (3.00 mm)	HB		UL 94
Flammability	20	mm/min	FMVSS 302

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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

