

Polytron® P40B01

Polypropylene Homopolymer

Polyram Ram-On Industries

Message:

A chemically coupled 40% LGF reinforced black PP, heat stabilized for high temperature applications such as under the hood automotive parts.

General Information			
Filler / Reinforcement	Long Glass Fiber,40% 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			
--	1.23	g/cm ³	ASTM D792
--	1.20	g/cm ³	ISO 1183
Molding Shrinkage			
Flow	0.25 to 0.40	%	
--	0.20 to 0.40	%	ISO 2577
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	10000	MPa	ASTM D638, ISO 527-2
Tensile Strength (Yield)	120	MPa	ASTM D638, ISO 527-2
Tensile Elongation (Break)	2.0	%	ASTM D638, ISO 527-2
Flexural Modulus	8200	MPa	ASTM D790, ISO 178
Flexural Strength	190	MPa	ASTM D790, ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-30°C	22	kJ/m ²	
23°C	19	kJ/m ²	
Charpy Unnotched Impact Strength (23°C)	60	kJ/m ²	ISO 179
Notched Izod Impact			
23°C	190	J/m	ASTM D256
23°C	18	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	156	°C	ASTM D648, ISO 75-2/A
Melting Temperature	168	°C	ISO 11357-3, ASTM D3418

Flammability	Nominal Value	Unit	Test Method
Flame Rating (3.00 mm)	HB		UL 94
Flammability	22	mm/min	FMVSS 302

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