

Polytron® P40B07

Polypropylene Homopolymer

Polyram Ram-On Industries

Message:

A chemically coupled 40% LGF reinforced black PP, heat stabilized, UV stabilized for injection moulding applications.

General Information			
Filler / Reinforcement	Long glass fiber, 40% filler by weight		
Additive	heat stabilizer		
	UV stabilizer		
Features	Chemical coupling		
	Thermal Stability		
RoHS Compliance	RoHS compliance		
Appearance	Black		
	Natural color		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.23	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow	0.12	%	ASTM D955
--	0.12	%	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	ISO 179
23°C	19	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	60	kJ/m ²	ISO 179
Notched Izod Impact (23°C)	190	J/m	ASTM D256
Unnotched Izod Impact Strength (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 D3417
Flammability	Nominal Value	Unit	Test Method
Flame Rating (3.00 mm)	HB		UL 94
Flammability	22	mm/min	FMVSS 302
Injection	Nominal Value	Unit	
Rear Temperature	190 - 220	°C	
Middle Temperature	200 - 225	°C	
Front Temperature	205 - 230	°C	
Mold Temperature	30.0 - 65.0	°C	
Injection Pressure	70.0 - 105	MPa	
Holding Pressure	35.0 - 70.0	MPa	
Back Pressure	0.350 - 0.700	MPa	
Screw Speed	60 - 90	rpm	
Injection instructions			

Fill Speed: 25 to 50 mm/sec

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