

Polytron® P50B07/P50B07-S (Single Strand)

Polypropylene Homopolymer

Polyram Ram-On Industries

Message:

A chemically coupled 50% LGF reinforced black PP, heat stabilized, UV stabilized for injection moulding applications.

General Information			
Filler / Reinforcement	Long Glass Fiber,50% Filler by Weight		
Additive	Heat Stabilizer		
	UV Stabilizer		
Features	Chemically Coupled		
	Good UV Resistance		
	Heat Stabilized		
RoHS Compliance	RoHS Compliant		
Appearance	Black		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.31	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow	0.20 to 0.30	%	
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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 (23°C)	22	kJ/m ²	ISO 179
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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