

Polytron® P30B03

Polypropylene Copolymer

Polyram Ram-On Industries

Message:

A Chemically Coupled 30% Long Glass Fiber Reinforced Black Polypropylene, Heat Stabilized for Injection Moulding application.

These products have significantly improved impact performance characteristics compared to other grades of Polypropylene long fiber thermoplastics. The room temperature Charpy impact properties are 25 to 30% higher at room temperature and at low temperature (-40°C).

The material is supplied in Pellets that are typically 11-13mm in length. Fiber length is the length of the Pellets.

General Information			
Filler / Reinforcement	Long Glass Fiber,30% Filler by Weight		
Additive	Heat Stabilizer		
Features	Chemically Coupled		
	Good Impact Resistance		
	Heat Stabilized		
RoHS Compliance	RoHS Compliant		
Appearance	Black		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.10	g/cm³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow	0.10 to 0.20	%	ASTM D955
--	0.10 to 0.20	%	ISO 2577
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	6250	MPa	ASTM D638, ISO 527-2
Tensile Strength (Yield)	85.0	MPa	ASTM D638, ISO 527-2
Tensile Elongation (Break)	2.2	%	ASTM D638, ISO 527-2
Flexural Modulus	6100	MPa	ASTM D790, ISO 178
Flexural Strength	130	MPa	ASTM D790, ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-30°C	14	kJ/m²	
23°C	16	kJ/m²	
Charpy Unnotched Impact Strength			ISO 179
-30°C	75	kJ/m²	
23°C	50	kJ/m²	
Notched Izod Impact			
23°C	170	J/m	ASTM D256
-30°C	17	kJ/m²	ISO 180
23°C	16	kJ/m²	ISO 180

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	149	°C	ASTM D648, ISO 75-2/A
Flammability	Nominal Value	Unit	Test Method
Flame Rating (3.00 mm)	HB		UL 94
Flammability (2.00 mm)	10	mm/min	FMVSS 302

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