

# Polytron® P50B03

Polypropylene Copolymer

Polyram Ram-On Industries

## Message:

A Chemically Coupled 50% 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).

General Information			
Filler / Reinforcement	Long Glass Fiber,50% 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	1.35	g/cm <sup>3</sup>	ASTM D792, ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	9500	MPa	ASTM D638, ISO 527-2
Tensile Strength (Yield)	120	MPa	ASTM D638, ISO 527-2
Tensile Elongation (Break)	2.1	%	ASTM D638, ISO 527-2
Flexural Modulus	9200	MPa	ASTM D790, ISO 178
Flexural Strength	200	MPa	ASTM D790, ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	35	kJ/m <sup>2</sup>	ISO 179
Notched Izod Impact			
23°C	350	J/m	ASTM D256
23°C	25	kJ/m <sup>2</sup>	ISO 180
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	153	°C	ASTM D648, ISO 75-2/A

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