

# Polytron® P40N03

Polypropylene Copolymer

Polyram Ram-On Industries

## Message:

IS A CHEMICALLY COUPLED 40% LONG GLASS FIBERS REINFORCED BLACK & NATURAL 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,40% Filler by Weight		
Additive	Heat Stabilizer		
Features	Chemically Coupled		
	Good Impact Resistance		
	Heat Stabilized		
RoHS Compliance	RoHS Compliant		
Appearance	Black		
	Natural Color		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.22	g/cm <sup>3</sup>	ASTM D792, ISO 1183
Molding Shrinkage			
Flow	0.10 to 0.20	%	
--	0.10 to 0.20	%	ISO 2577
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	7800	MPa	ASTM D638, ISO 527-2
Tensile Strength (Yield)	115	MPa	ASTM D638, ISO 527-2
Tensile Elongation (Break)	2.8	%	ASTM D638, ISO 527-2
Flexural Modulus	8000	MPa	ASTM D790, ISO 178
Flexural Strength	180	MPa	ASTM D790, ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-30°C	24	kJ/m <sup>2</sup>	
23°C	23	kJ/m <sup>2</sup>	
Charpy Unnotched Impact Strength			ISO 179
-30°C	80	kJ/m <sup>2</sup>	
23°C	75	kJ/m <sup>2</sup>	
Notched Izod Impact			
23°C	180	J/m	ASTM D256

-30°C	23	kJ/m <sup>2</sup>	ISO 180
23°C	21	kJ/m <sup>2</sup>	ISO 180
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	151	°C	ASTM D648, ISO 75-2/A

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