

Polytron® P40N01

Polypropylene Homopolymer

Polyram Ram-On Industries

Message:

A CHEMICALLY COUPLED 40% LONG GLASS FIBER REINFORCED NATURAL POLYPROPYLENE HEAT STABILIZED FOR INJECTION MOULDING APPLICATION.

General Information			
Filler / Reinforcement	Long Glass Fiber,40% Filler by Weight		
Additive	Heat Stabilizer		
Features	Chemically Coupled		
	Heat Stabilized		
Appearance	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	0.25 to 0.40	%	ASTM D955
--	0.25 to 0.40	%	ISO 2577
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	9000	MPa	ASTM D638, ISO 527-2
Tensile Strength (Yield)	130	MPa	ASTM D638, ISO 527-2
Tensile Elongation (Break)	2.2	%	ASTM D638, ISO 527-2
Flexural Modulus	9500	MPa	ASTM D790, ISO 178
Flexural Strength	200	MPa	ASTM D790, ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-30°C	20	kJ/m ²	
23°C	22	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179
-30°C	55	kJ/m ²	
23°C	80	kJ/m ²	
Notched Izod Impact			
23°C	200	J/m	ASTM D256
23°C	20	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	152	°C	ASTM D648, ISO 75-2/A
Melting Temperature	168	°C	ISO 11357-3, ASTM D3418
Flammability	Nominal Value	Unit	Test Method

Flame Rating (3.00 mm)	HB		UL 94
Flammability	22	mm/min	FMVSS 302

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