

Polytron® A50B01

Polyamide 66

Polyram Ram-On Industries

Message:

50% Long Glass Fiber Reinforced Black Nylon 6.6, Heat Stabilized for Injection Moulding application.

General Information			
Filler / Reinforcement	Glass Fiber,50% Filler by Weight		
Additive	Heat Stabilizer		
Features	Heat Stabilized		
RoHS Compliance	RoHS Compliant		
Appearance	Black		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.58	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow	0.10 to 0.30	%	ASTM D955
--	0.10 to 0.30	%	ISO 294-4
Water Absorption			
Saturation	3.4	%	ASTM D570
Saturation, 23°C	3.4	%	ISO 62
Equilibrium	1.0	%	ASTM D570
Equilibrium, 23°C, 50% RH	1.0	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
--	1800	MPa	ASTM D638
--	18000	MPa	ISO 527-2
Tensile Strength (Yield)	230	MPa	ASTM D638, ISO 527-2
Tensile Elongation (Break)	1.5	%	ASTM D638, ISO 527-2
Flexural Modulus	16500	MPa	ASTM D790, ISO 178
Flexural Strength	380	MPa	ASTM D790, ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	28	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	100	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)	253	°C	ASTM D648, ISO 75-2/A

Flammability	Nominal Value	Test Method
Flame Rating (3.00 mm)	HB	UL 94

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