

RAMLLOY PN300G4

Polyphenylene Ether + PS
Polyram Ram-On Industries

Message:
PPE/PS ALLOY 20% GLASS FIBER RENFORCED FOR INJECTION MOULDING APPLICATIONS.

General Information			
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.25	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (280°C/10.0 kg)	12	g/10 min	ASTM D1238, ISO 1133
Molding Shrinkage			
Flow	0.20 to 0.40	%	ASTM D955
--	0.20 to 0.40	%	ISO 2577
Water Absorption			
Saturation	0.20	%	ASTM D570
Saturation, 23°C	0.20	%	ISO 62
Equilibrium, 23°C, 50% RH	0.060	%	ASTM D570, ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	5000	MPa	ASTM D638, ISO 527-2
Tensile Strength (Yield)	70.0	MPa	ASTM D638, ISO 527-2
Tensile Elongation (Break)	3.0	%	ASTM D638, ISO 527-2
Flexural Modulus	5200	MPa	ASTM D790, ISO 178
Flexural Strength	100	MPa	ASTM D790, ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	80	J/m	ASTM D256
23°C	8.0	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed	130	°C	ASTM D648, ISO 75-2/B
1.8 MPa, Unannealed	120	°C	ASTM D648, ISO 75-2/A
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+15	ohms	IEC 60093
Volume Resistivity	1.0E+17	ohms · cm	IEC 60093
Electric Strength	18	kV/mm	IEC 60243-1
Flammability	Nominal Value	Unit	Test Method
Flame Rating (3.00 mm)	HB		UL 94

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