

RAMOFIN PPH308G50

Polypropylene Homopolymer

Polyram Ram-On Industries

Message:

50% GLASS-FIBER REINFORCED, HEAT STABILIZED, IMPACT MODIFIED POLYPROPYLENE FOR INJECTION MOULDING APPLICATIONS.

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 50% filler by weight		
Additive	Impact modifier heat stabilizer		
Features	Impact modification Thermal Stability		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.33	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	3.0	g/10 min	ASTM D1238, ISO 1133
Molding Shrinkage			
Flow	0.10 - 0.30	%	
--	0.10 - 0.30	%	ISO 2577
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			
Class r	115		ASTM D785
R scale	115		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	95.0	MPa	ASTM D638, ISO 527-2
Tensile Elongation (Break)	4.0	%	ASTM D638, ISO 527-2
Flexural Modulus	7400	MPa	ASTM D790, ISO 178
Flexural Strength	140	MPa	ASTM D790, ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	160	J/m	ASTM D256
23°C	16	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, not annealed	150	°C	ASTM D648, ISO 75-2/B
1.8 MPa, not annealed	140	°C	ASTM D648, ISO 75-2/A
Maximum operating temperature-Short Peaks Operation	140	°C	
Maximum Continuous Use Temperature	110	°C	

Melting Temperature	165	°C	ISO 11357-3, ASTM D3418
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+12	ohms	IEC 60093
Volume Resistivity	1.0E+17	ohms·cm	IEC 60093
Dielectric Strength	80	kV/mm	IEC 60243-1
Dielectric Constant (1 MHz)	3.80		IEC 60250
Flammability	Nominal Value	Unit	Test Method
Flame Rating (3.00 mm)	HB		UL 94
Injection	Nominal Value	Unit	
Rear Temperature	190 - 220	°C	
Middle Temperature	200 - 225	°C	
Front Temperature	205 - 230	°C	
Mold Temperature	30.0 - 65.0	°C	
Injection Pressure	70.0 - 105	MPa	
Holding Pressure	35.0 - 70.0	MPa	
Back Pressure	0.350 - 0.700	MPa	
Screw Speed	60 - 90	rpm	
Injection instructions			

Fill Speed: 25 to 50 mm/sec

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