

RAMOFIN PPH316G4

Polypropylene Homopolymer

Polyram Ram-On Industries

Message:

20% GLASS-FIBER REINFORCED, HIGH HEAT STABILIZED POLYPROPYLENE FOR INJECTION MOULDING APPLICATIONS.

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 20% filler by weight		
Additive	heat stabilizer		
Features	Thermal Stability		
RoHS Compliance	RoHS compliance		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.03	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	13	g/10 min	ASTM D1238, ISO 1133
Molding Shrinkage			
Flow	0.20 - 0.50	%	ASTM D955
--	0.20 - 0.50	%	ISO 2577
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3900	MPa	ASTM D638, ISO 527-2
Tensile Strength (Yield)	85.0	MPa	ASTM D638, ISO 527-2
Tensile Elongation (Break)	3.5	%	ASTM D638, ISO 527-2
Flexural Modulus	4100	MPa	ASTM D790, ISO 178
Flexural Strength	115	MPa	ASTM D790, ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	80	J/m	ASTM D256
23°C	9.5	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, not annealed	143	°C	ASTM D648, ISO 75-2/B
1.8 MPa, not annealed	137	°C	ASTM D648, ISO 75-2/A
Melting Temperature	165	°C	ISO 11357-3, ASTM D3418
Flammability	Nominal Value	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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