

RAMSTER PF100

Polybutylene Terephthalate

Polyram Ram-On Industries

Message:

GENERAL PURPOSE, HIGH VISCOSITY PBT FOR INJECTION MOULDING APPLICATIONS.

General Information			
Features	General		
	Viscosity, High		
Uses	General		
RoHS Compliance	RoHS compliance		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.30	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR)			
230°C/2.16 kg	25	g/10 min	ASTM D1238
250°C/2.16 kg	25	g/10 min	ISO 1133
Molding Shrinkage			
Flow	2.1 - 2.3	%	ASTM D955
--	2.1 - 2.3	%	ISO 2577
Water Absorption			
Saturation	0.60	%	ASTM D570
Saturated, 23°C	0.60	%	ISO 62
Equilibrium, 23°C, 50% RH	0.25	%	ASTM D570, ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	55.0	MPa	ASTM D638, ISO 527-2
Tensile Elongation (Break)	60	%	ASTM D638, ISO 527-2
Flexural Modulus	3000	MPa	ASTM D790, ISO 178
Flexural Strength	95.0	MPa	ASTM D790, ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	50	J/m	ASTM D256
23°C	5.0	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, not annealed	170	°C	ASTM D648, ISO 75-2/B
1.8 MPa, not annealed	70.0	°C	ASTM D648, ISO 75-2/A
Melting Temperature	225	°C	ISO 11357-3, ASTM D3418
Electrical	Nominal Value	Unit	Test Method

Volume Resistivity	1.0E+18	ohms·cm	IEC 60093
Dielectric Strength	30	kV/mm	IEC 60243-1
Dielectric Constant (1 MHz)	3.20		IEC 60250
Flammability	Nominal Value	Unit	Test Method
Flame Rating (3.00 mm)	HB		UL 94
Glow Wire Flammability Index	750	°C	IEC 60695-2-12
Injection	Nominal Value	Unit	
Drying Temperature	120	°C	
Drying Time	3.0 - 4.0	hr	
Suggested Max Moisture	0.050	%	
Rear Temperature	235 - 255	°C	
Middle Temperature	240 - 260	°C	
Front Temperature	245 - 270	°C	
Processing (Melt) Temp	240 - 270	°C	
Mold Temperature	70.0 - 90.0	°C	
Injection Pressure	70.0 - 105	MPa	
Holding Pressure	30.0 - 105	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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