

PLUSTEK PB310G6

Polyamide 6
Polyram Ram-On Industries

Message:
30% GLASS FIBER REINFORCED POLYAMIDE 66, HEAT STABILIZED POLYAMIDE 6 FOR INJECTION MOULDING APPLICATIONS.

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 30% filler by weight		
Additive	heat stabilizer		
Features	Thermal Stability		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.37	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow	0.35	%	ASTM D955
--	0.35	%	ISO 2577
Water Absorption			
Saturation	6.6	%	ASTM D570
Saturated, 23°C	6.6	%	ISO 62
Equilibrium, 23°C, 50% RH	2.1	%	ASTM D570, ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	175	MPa	ASTM D638, ISO 527-2
Tensile Elongation (Break)	3.5	%	ASTM D638, ISO 527-2
Flexural Modulus	8500	MPa	ASTM D790, ISO 178
Flexural Strength	300	MPa	ASTM D790, ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-30°C	12	kJ/m ²	ISO 179
23°C	17	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength			ISO 179
-30°C	80	kJ/m ²	ISO 179
23°C	90	kJ/m ²	ISO 179
Notched Izod Impact			
23°C	16	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	210	°C	ASTM D648, ISO 75-2/B
1.8 MPa, not annealed	190	°C	ASTM D648, ISO 75-2/A
Melting Temperature	218	°C	ISO 11357-3, ASTM D3417

Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+15	ohms·cm	IEC 60093
Dielectric Strength	32	kV/mm	IEC 60243-1
Flammability	Nominal Value	Unit	Test Method
Flame Rating (3.00 mm)	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	85.0	°C	
Drying Time	3.0	hr	
Suggested Max Moisture	0.15	%	
Rear Temperature	220 - 260	°C	
Middle Temperature	230 - 265	°C	
Front Temperature	250 - 270	°C	
Mold Temperature	55.0 - 95.0	°C	
Injection Pressure	70.0 - 105	MPa	
Injection Rate	Fast		
Holding Pressure	30.0 - 70.0	MPa	
Back Pressure	0.350 - 0.700	MPa	
Screw Speed	60 - 90	rpm	
Injection instructions			
Fill Speed: 50 to 75 mm/sec			

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