

PLUSTEK PA301G50

Polyamide 66
Polyram Ram-On Industries

Message:
Heat Stabilized, 50% Glass Fiber Reinforced Polyamide 6.6 for Injection Moulding applications.

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 50% 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	1.55	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow	0.10 - 0.50	%	ASTM D955
--	0.10 - 0.50	%	ISO 2577
Water Absorption			
Saturation	4.0	%	ASTM D570
Saturated, 23°C	4.0	%	ISO 62
Equilibrium, 23°C, 50% RH	1.2	%	ASTM D570, ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			
Class r	122		ASTM D785
R scale	122		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	16000	MPa	ASTM D638, ISO 527-2
Tensile Strength (Yield)	230	MPa	ASTM D638, ISO 527-2
Tensile Elongation (Break)	2.5	%	ASTM D638, ISO 527-2
Flexural Modulus	15000	MPa	ASTM D790, ISO 178
Flexural Strength	330	MPa	ASTM D790, ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	17	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	90	kJ/m ²	ISO 179
Notched Izod Impact			
23°C	150	J/m	ASTM D256
23°C	15	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, not annealed	255	°C	ASTM D648, ISO 75-2/B

1.8 MPa, not annealed	250	°C	ASTM D648, ISO 75-2/A
Maximum operating temperature-Short Peaks Operation	240	°C	
Maximum Continuous Use Temperature	130	°C	
Melting Temperature	256	°C	ISO 11357-3, ASTM D3417
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	90	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
Glow Wire Flammability Index	750	°C	IEC 60695-2-12
Injection	Nominal Value	Unit	
Drying Temperature	85.0	°C	
Drying Time	3.0	hr	
Suggested Max Moisture	0.15	%	
Rear Temperature	270 - 280	°C	
Middle Temperature	280 - 300	°C	
Front Temperature	285 - 310	°C	
Mold Temperature	65.0 - 110	°C	
Injection Pressure	70.0 - 125	MPa	
Injection Rate	Fast		
Holding Pressure	35.0 - 85.0	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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