

PLUSTEK PA309G6

Polyamide 66/6 Copolymer

Polyram Ram-On Industries

Message:

30% GLASS FIBER REINFORCED, UV STABILIZED POLYAMIDE 66.6 COPOLYMER FOR INJECTION MOULDING APPLICATIONS.

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Additive	UV Stabilizer		
Features	Good UV Resistance		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.35	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow	0.30 to 0.70	%	ASTM D955
--	0.30 to 0.70	%	ISO 2577
Water Absorption			
Saturation	5.6	%	ASTM D570
Saturation, 23°C	5.6	%	ISO 62
Equilibrium, 23°C, 50% RH	1.7	%	ASTM D570, ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	11000	MPa	ASTM D638, ISO 527-2
Tensile Strength (Yield)	190	MPa	ASTM D638, ISO 527-2
Tensile Elongation (Break)	3.0	%	ASTM D638, ISO 527-2
Flexural Modulus	9000	MPa	ASTM D790, ISO 178
Flexural Strength	280	MPa	ASTM D790, ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	120	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, Unannealed	260	°C	ASTM D648, ISO 75-2/B
1.8 MPa, Unannealed	250	°C	ASTM D648, ISO 75-2/A
Maximum Use 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
Electric Strength	90	kV/mm	IEC 60243-1
Dielectric Constant (1 MHz)	3.50		IEC 60250
Flammability	Nominal Value	Unit	Test Method
Flame Rating (3.00 mm)	HB		UL 94

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