

PLUSTEK PA517

Polyamide 66/6 Copolymer

Polyram Ram-On Industries

Message:

Halogen Free Polyamide 6.6/6. Formulated to meet V-0 UL-94 , for Injection Moulding application.

General Information			
UL YellowCard	E174094-101356069		
Features	Halogen-free		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.15	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow	1.0 - 1.4	%	ASTM D955
--	1.0 - 1.4	%	ISO 2577
Water Absorption			
Saturation	7.5	%	ASTM D570
Saturated, 23°C	7.5	%	ISO 62
Equilibrium, 23°C, 50% RH	2.5	%	ASTM D570, ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	85.0	MPa	ASTM D638, ISO 527-2
Tensile Elongation (Break)	10	%	ASTM D638, ISO 527-2
Flexural Modulus	3500	MPa	ASTM D790, ISO 178
Flexural Strength	130	MPa	ASTM D790, ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	40	J/m	ASTM D256
23°C	4.0	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, not annealed	220	°C	ASTM D648, ISO 75-2/B
1.8 MPa, not annealed	95.0	°C	ASTM D648, ISO 75-2/A
Maximum operating temperature-Short Peaks Operation	180	°C	
Maximum Continuous Use Temperature	80	°C	
Melting Temperature	250	°C	ISO 11357-3, ASTM D3418
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+13	ohms	IEC 60093
Volume Resistivity	1.0E+17	ohms · cm	IEC 60093
Dielectric Strength	70	kV/mm	IEC 60243-1

Dielectric Constant (1 MHz)	3.30		IEC 60250
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.800 mm)	5VA		UL 94
Glow Wire Flammability Index (1.60 mm)	850	°C	IEC 60695-2-12
Glow Wire Ignition Temperature (1.60 mm)	750	°C	IEC 60695-2-13
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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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

