

PLUSTEK RA303G6

Polyamide 66
Polyram Ram-On Industries

Message:
30% GLASS-FIBER REINFORCED, HEAT STABILIZED AND HYDROLYSIS RESISTANT POLYAMIDE 66 FOR INJECTION MOULDING APPLICATIONS.

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Additive	Heat Stabilizer		
Features	Heat Stabilized		
	Hydrolysis Resistant		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.33 to 1.39	g/cm³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow	0.30 to 0.40	%	ISO 2577
--	0.30 to 0.40	%	
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
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	122		ASTM D785, ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	8800	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	8200	MPa	ASTM D790, ISO 178
Flexural Strength	290	MPa	ASTM D790, ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-30°C	11	kJ/m²	
23°C	13	kJ/m²	
Charpy Unnotched Impact Strength			ISO 179
-30°C	70	kJ/m²	
23°C	80	kJ/m²	
Notched Izod Impact			
23°C	120	J/m	ASTM D256

-30°C	11	kJ/m ²	ISO 180
23°C	12	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed	259	°C	ASTM D648, ISO 75-2/B
1.8 MPa, Unannealed	249	°C	ASTM D648, ISO 75-2/A
Melting Temperature			
--	256	°C	ISO 11357-3
--	245	°C	ASTM D3417
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+13	ohms	IEC 60093
Volume Resistivity	1.0E+17	ohms·cm	IEC 60093
Electric Strength	90	kV/mm	IEC 60243-1
Dielectric Constant (1 MHz)	3.70		IEC 60250
Flammability	Nominal Value	Unit	Test Method
Flame Rating (3.00 mm)	HB		UL 94
Flammability	16	mm/min	FMVSS 302
Injection	Nominal Value	Unit	
Drying Temperature	85.0	°C	
Drying Time	3.0	hr	
Suggested Max Moisture	0.15	%	
Rear Temperature	270 to 280	°C	
Middle Temperature	280 to 300	°C	
Front Temperature	285 to 310	°C	
Mold Temperature	65.0 to 110	°C	
Injection Pressure	70.0 to 125	MPa	
Injection Rate	Fast		
Holding Pressure	35.0 to 85.0	MPa	
Back Pressure	0.350 to 0.700	MPa	
Screw Speed	60 to 90	rpm	

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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



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