

RAMTOUGH RZ300G6

Polycarbonate

Polyram Ram-On Industries

Message:

30% GLASS-FIBER REINFORCED POLYCARBONATE FOR INJECTION MUOLDING APPLICATIONS.

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 30% filler by weight		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.42	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	3.5	g/10 min	ASTM D1238, ISO 1133
Molding Shrinkage			
Flow	0.20 - 0.30	%	ASTM D955
--	0.20 - 0.30	%	ISO 2577
Water Absorption			
Saturation	0.070	%	ASTM D570
Saturated, 23°C	0.070	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	120	MPa	ASTM D638, ISO 527-2
Tensile Elongation (Break)	2.0	%	ASTM D638, ISO 527-2
Flexural Modulus	7000	MPa	ASTM D790, ISO 178
Flexural Strength	195	MPa	ASTM D790, ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	130	J/m	ASTM D256
23°C	13	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, not annealed	147	°C	ASTM D648, ISO 75-2/B
1.8 MPa, not annealed	139	°C	ASTM D648, ISO 75-2/A
Thermal Conductivity	0.24	W/m/K	ASTM C177, DIN 52612
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+14	ohms	IEC 60093
Volume Resistivity	1.0E+18	ohms · cm	IEC 60093
Dielectric Strength	30	kV/mm	IEC 60243-1
Dielectric Constant (1 MHz)	3.30		IEC 60250
Flammability	Nominal Value	Unit	Test Method
Flame Rating (3.00 mm)	V-1		UL 94
Injection	Nominal Value	Unit	

Drying Temperature	120	°C
Drying Time	4.0 - 5.0	hr
Suggested Max Moisture	0.020	%
Rear Temperature	270 - 290	°C
Middle Temperature	280 - 300	°C
Front Temperature	290 - 310	°C
Processing (Melt) Temp	270 - 310	°C
Mold Temperature	80.0 - 120	°C
Injection Pressure	70.0 - 107	MPa
Holding Pressure	35.0 - 85.0	MPa
Back Pressure	0.350 - 0.700	MPa
Screw Speed	60 - 90	rpm

Injection instructions

Fill Speed: 25 to 50 mm/sec

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

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

