

RAMTOUGH RZ300G3

Polycarbonate
Polyram Ram-On Industries

Message:
15% Glass Fiber Reinforced Polycarbonate for Injection Moulding applications.

General Information			
Filler / Reinforcement	Glass Fiber,15% Filler by Weight		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.24	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	10	g/10 min	ASTM D1238, ISO 1133
Molding Shrinkage			
Flow	0.20	%	
--	0.20	%	ISO 2577
Water Absorption			
Saturation	0.29	%	ASTM D570
Saturation, 23°C	0.29	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	90.0	MPa	ASTM D638, ISO 527-2
Tensile Elongation (Break)	3.0	%	ASTM D638, ISO 527-2
Flexural Modulus	4000	MPa	ASTM D790, ISO 178
Flexural Strength	130	MPa	ASTM D790, ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	110	J/m	ASTM D256
23°C	8.0	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed	140	°C	ASTM D648, ISO 75-2/B
1.8 MPa, Unannealed	135	°C	ASTM D648, ISO 75-2/A
Thermal Conductivity	0.22	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
Electric Strength	30	kV/mm	IEC 60243-1
Dielectric Constant (1 MHz)	3.20		IEC 60250
Flammability	Nominal Value	Unit	Test Method
Flame Rating (3.00 mm)	V-2		UL 94
Injection	Nominal Value	Unit	

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

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

