

RAMSTER PE300J6

Polyethylene Terephthalate

Polyram Ram-On Industries

Message:

30% GLASS-FIBER AND GLASS-BEADS REINFORCED, HIGH STIFFNESS PET FOR INJECTION MOULDING APPLICATIONS.

General Information			
Filler / Reinforcement	Glass Bead\Glass Fiber,30% Filler by Weight		
Features	High Stiffness		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.53	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (280°C/2.16 kg)	10	g/10 min	ASTM D1238, ISO 1133
Molding Shrinkage			
Flow	0.40	%	ASTM D955
--	0.40	%	ISO 2577
Water Absorption			
Saturation	0.50	%	ASTM D570
Saturation, 23°C	0.50	%	ISO 62
Equilibrium, 23°C, 50% RH	0.20	%	ASTM D570, ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	110	MPa	ASTM D638, ISO 527-2
Tensile Elongation (Break)	4.0	%	ASTM D638, ISO 527-2
Flexural Modulus	6000	MPa	ASTM D790, ISO 178
Flexural Strength	160	MPa	ASTM D790, ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	85	J/m	ASTM D256
23°C	8.5	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed	255	°C	ASTM D648, ISO 75-2/B
1.8 MPa, Unannealed	235	°C	ASTM D648, ISO 75-2/A
Melting Temperature	260	°C	ISO 11357-3, ASTM D3418
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+18	ohms · cm	IEC 60093
Electric Strength	29	kV/mm	IEC 60243-1
Dielectric Constant (1 MHz)	3.60		IEC 60250
Flammability	Nominal Value	Unit	Test Method

Flame Rating (3.00 mm)	HB		UL 94
Glow Wire Flammability Index	750	°C	IEC 60695-2-12

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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

