Ranger PBT PBT-201-G25 291

Polybutylene Terephthalate

Beijing Ranger Chemical Co., Ltd.

Message:

Unreinforced grades have abundant strength and flexibility, and have strong characteristics against brittleness.

UL-certified slow-burning(94HB) and self-extinguishing grades(94V-0,V-2) exist, and electrical properties exhibited are the highest of any thermoplastic. Low water absorption is exhibited, and excellent electrical properties(CTI and GWIT) are retained over extended periods of usages, even with widely varied temperature and humidity conditions.

The surface of molded products is smooth, and a low coefficient of friction is exhibited. As the amount of froction is low, PBT is suitable for use in application requiring friction and wear properties.

The material is exceptionally reliable, with small in-use dimensional variation, and superior molding stability and dimensional precision.

Long-term chemical resistance is exceptional, and at room temperature, there is almost no degradation in properties after.

Both unreinforced and reinforced grades exhibit exceptional flowability, and excellent processability.

Application: VCD drive frames\ Connectors\ Trimmers\ Switch buttons for gas-fired instantaneous water heaters\ Relay blocks\ Driers\ Rectifiers\ Outer handles\ Height sensor cases\ Door mirror stays\ Drive component housings\ Energy saving lamp.

General Information									
Features	Flame Retardant								
	Good Chemical Resistance								
	Good Dimensional Stability								
	Good Electrical Properties								
	Good Flexibility								
	Good Flow								
	Good Processability								
	Good Surface Finish High Strength Low Friction								
							Low to No Water Absorpt	ion	
Uses	Automotive Applications								
	Electrical/Electronic Applications								
	Housings								
	Lighting Fixtures								
Forms	Pellets								
Processing Method	Injection Molding								
Physical	Nominal Value	Unit	Test Method						
Specific Gravity	1.56	g/cm³	ASTM D792						
Molding Shrinkage - Flow	0.40 to 0.80	%	ASTM D955						
Water Absorption (23°C, 24 hr)	0.060	%	ASTM D570						
Mechanical	Nominal Value	Unit	Test Method						
Tensile Strength (Yield)	110	МРа	ASTM D638						
Flexural Modulus	7500	MPa	ASTM D790						

Flexural Strength	175	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength	9.0	kJ/m²	ASTM D256
Unnotched Izod Impact Strength	55	kJ/m²	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	210	°C	
1.8 MPa, Unannealed	200	°C	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity (2.00 mm)	1.3E+16	ohms·cm	ASTM D257
Volume Resistivity (2.00 mm) Dielectric Strength (2.00 mm)	1.3E+16 20	ohms·cm kV/mm	ASTM D257 ASTM D149
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Dielectric Strength (2.00 mm)	20		ASTM D149
Dielectric Strength (2.00 mm) Dielectric Constant (50 Hz)	20 3.20		ASTM D149 ASTM D150
Dielectric Strength (2.00 mm) Dielectric Constant (50 Hz) Dissipation Factor (50 Hz)	20 3.20 0.020	kV/mm	ASTM D149 ASTM D150 ASTM D150
Dielectric Strength (2.00 mm) Dielectric Constant (50 Hz) Dissipation Factor (50 Hz) Flammability	20 3.20 0.020	kV/mm	ASTM D149 ASTM D150 ASTM D150 Test Method

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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

