Ranger PBT PBT-201-G15 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				
	High Strength Low Friction				
Uses	Automotive Applications				
	Electrical/Electronic Applications				
	Housings				
	Lighting Fixtures				
Forms	Pellets				
Processing Method	Injection Molding				
Physical	Nominal Value	Unit	Test Method		
Specific Gravity	1.50	g/cm³	ASTM D792		
Molding Shrinkage - Flow	0.40 to 0.80	%	ASTM D955		
Water Absorption (23°C, 24 hr)	0.070	%	ASTM D570		
Mechanical	Nominal Value	Unit	Test Method		
Tensile Strength (Yield)	100	МРа	ASTM D638		
Flexural Modulus	6500	MPa	ASTM D790		

Flexural Strength	160	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength	7.0	kJ/m²	ASTM D256
Unnotched Izod Impact Strength	45	kJ/m²	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	200	°C	
1.8 MPa, Unannealed	195	°C	
Electrical	Nominal Value	Unit	Test Method
Liectrical	Nominal value	Offit	rest Metriod
Volume Resistivity (2.00 mm)	1.1E+16	ohms·cm	ASTM D257
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Volume Resistivity (2.00 mm) Dielectric Strength (2.00 mm)	1.1E+16 19	ohms·cm	ASTM D257 ASTM D149
Volume Resistivity (2.00 mm) Dielectric Strength (2.00 mm) Dielectric Constant (50 Hz)	1.1E+16 19 3.30	ohms·cm	ASTM D257 ASTM D149 ASTM D150
Volume Resistivity (2.00 mm) Dielectric Strength (2.00 mm) Dielectric Constant (50 Hz) Dissipation Factor (50 Hz)	1.1E+16 19 3.30 0.020	ohms·cm kV/mm	ASTM D257 ASTM D149 ASTM D150 ASTM D150
Volume Resistivity (2.00 mm) Dielectric Strength (2.00 mm) Dielectric Constant (50 Hz) Dissipation Factor (50 Hz) Flammability	1.1E+16 19 3.30 0.020	ohms·cm kV/mm	ASTM D257 ASTM D149 ASTM D150 ASTM D150 Test Method

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