Ranger PBT PBT-201-G20 211

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
	General Purpose
	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 Absorption
Uses	Automotive Applications
	Electrical/Electronic Applications
	Housings
Forms	Pellets

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.54	g/cm³	ASTM D792
Molding Shrinkage - Flow	0.40 to 1.2	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.070	%	ASTM D570

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	110	MPa	ASTM D638
Flexural Modulus	10000	MPa	ASTM D790
Flexural Strength	170	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength	9.0	kJ/m^2	ASTM D256
Unnotched Izod Impact Strength	55	kJ/m^2	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	215	°C	
1.8 MPa, Unannealed	205	°C	
Electrical	**Nominal Value**	**Unit**	**Test Method**
Volume Resistivity (2.00 mm)	1.2E+16	ohms·cm	ASTM D257
Dielectric Strength (2.00 mm)	20	kV/mm	ASTM D149
Dielectric Constant (50 Hz)	3.30		ASTM D150
Dissipation Factor (50 Hz)	0.020		ASTM D150
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating			UL 94
0.800 mm	V-0		
1.60 mm	V-0		

Recommended distributors for this material

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