

## Beijing Ranger Chem BLUESTAR® BS450 Acetal Copolymer

Category : Polymer , Thermoplastic , Acetal (POM)

### Material Notes:

Modified PBT Characteristics: 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 friction 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. Information provided by Beijing Ranger Chemical Co.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Beijing-Ranger-Chem-BLUESTAR-BS450-Acetal-Copolymer.php](http://www.lookpolymers.com/polymer_Beijing-Ranger-Chem-BLUESTAR-BS450-Acetal-Copolymer.php)

Physical Properties	Metric	English	Comments
Density	1.41 g/cc	0.0509 lb/in <sup>3</sup>	ASTM D792
Water Absorption	0.22 % @Temperature 23.0 °C, Time 86400 sec	0.22 % @Temperature 73.4 °F, Time 24.0 hour	ASTM D570
Linear Mold Shrinkage	0.018 - 0.022 cm/cm	0.018 - 0.022 in/in	
Melt Flow	45 g/10 min @Load 2.16 kg, Temperature 190 °C	45 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	80	80	ASTM D785
Tensile Strength, Yield	60.8 MPa	8820 psi	ASTM D638
Elongation at Break	35 %	35 %	ASTM D638
Flexural Strength	93.2 MPa	13500 psi	ASTM D790
Flexural Modulus	2.55 GPa	370 ksi	ASTM D790
Compressive Strength	31.4 MPa	4550 psi	1% deformation; ASTM D695
	108 MPa	15600 psi	10% deformation; ASTM D695
	0.441 J/cm	0.827 ft-lb/in	

Izod Impact Notched Mechanical Properties	Metric @ Temperature 23.0 °C	English @ Temperature 73.4 °F	50%RH: ASTM D256 Comments
Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	110 °C	230 °F	ASTM D648

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