

SABIC Innovative Plastics Valox[®] 309 PBT

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT)

Material Notes:

PBT, For compounding only. Not intended for Injection Molding. Melt viscosity: 250C at 21.6 kgf is 3500-4500. Available in Natural (1001) only.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Valox-309-PBT.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.31 g/cc	1.31 g/cc	ASTM D792
Viscosity	400000 cP	400000 cP	Melt Viscosity; SABIC Method
Linear Mold Shrinkage, Flow	0.019 - 0.021 cm/cm @Thickness 3.20 mm	0.019 - 0.021 in/in @Thickness 0.126 in	SABIC Method
Linear Mold Shrinkage, Transverse	0.020 - 0.022 cm/cm @Thickness 3.20 mm	0.020 - 0.022 in/in @Thickness 0.126 in	SABIC Method

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	54.0 MPa	7830 psi	Type I, 50 mm/min; ASTM D638
Tensile Strength, Yield	33.0 MPa	4790 psi	Type I, 50 mm/min; ASTM D638
Elongation at Break	127 %	127 %	Type I, 50 mm/min; ASTM D638
Flexural Yield Strength	77.0 MPa	11200 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	2.15 GPa	312 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.640 J/cm	1.20 ft-lb/in	ASTM D256
Izod Impact, Unnotched	20.29 J/cm	38.01 ft-lb/in	ASTM D4812

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	115 Â°C @Thickness 3.20 mm	239 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	45.0 Â°C @Thickness 3.20 mm	113 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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