

SABIC Innovative Plastics Valox® V3802 PBT + PC + PET (Asia Pacific)

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate/Polybutylene Terephthalate (PBT) Blend, Unreinforced , Polyester, TP , Polybutylene Terephthalate (PBT)

Material Notes:

PBT + PC + PET, Mold Release, Flame retardant, Impact Modified, Opaque This data was supplied by SABIC-IP for the Asia Pacific region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Valox-V3802-PBT-PC-PET-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Density	1.30 g/cc	0.0470 lb/in ³	ASTM D 792
Linear Mold Shrinkage, Flow	0.0080 - 0.011 cm/cm	0.0080 - 0.011 in/in	SABIC Method
	@Thickness 3.20 mm	@Thickness 0.126 in	
Linear Mold Shrinkage, Transverse	0.0080 - 0.011 cm/cm	0.0080 - 0.011 in/in	SABIC Method
	@Thickness 3.20 mm	@Thickness 0.126 in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	41.0 MPa	5950 psi	Type I, 50 mm/min; ASTM D 638
Tensile Strength, Yield	52.0 MPa	7540 psi	Type I, 50 mm/min; ASTM D 638
Flexural Yield Strength	79.0 MPa	11500 psi	1.3 mm/min, 50 mm span; ASTM D 790
Flexural Modulus	2.20 GPa	319 ksi	1.3 mm/min, 50 mm span; ASTM D 790
Izod Impact, Notched	2.19 J/cm	4.10 ft-lb/in	ASTM D 256
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	5.50 J/cm	10.3 ft-lb/in	ASTM D 256
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Impact Test	56.0 J	41.3 ft-lb	Instrumented Impact Total Energy; ASTM D 3763
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	62.0 J	45.7 ft-lb	Instrumented Impact Total Energy; ASTM D 3763
	@Temperature -40.0 °C	@Temperature -40.0 °F	

Thermal Properties	Metric	English	Comments
	124 °C	255 °F	

Thermal Properties Deflection Temperature at 0.46 MPa (0.07 psi)	Metric @ Thickness 3.20 mm	English @ Thickness 0.126 in	Comments unannealed; ASTM D 648
Deflection Temperature at 1.8 MPa (264 psi)	72.0 Â°C @Thickness 3.20 mm	162 Â°F @Thickness 0.126 in	unannealed; ASTM D 648
Vicat Softening Point	133 Â°C	271 Â°F	Rate B/50; ASTM D 1525
UL RTI, Electrical	75.0 Â°C	167 Â°F	UL 746B
UL RTI, Mechanical with Impact	75.0 Â°C	167 Â°F	UL 746B
UL RTI, Mechanical without Impact	75.0 Â°C	167 Â°F	UL 746B
Flammability, UL94	V-0 @Thickness 1.50 mm	V-0 @Thickness 0.0591 in	UL 94 by SABIC-IP
	5VA @Thickness 3.00 mm	5VA @Thickness 0.118 in	UL 94 by SABIC-IP

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