

SABIC Innovative Plastics Valox® 420SE0U PBT (Asia Pacific)

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

Material Notes:

UV-Stabilized version of 420SE0.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Valox-420SE0U-PBT-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.58 g/cc	1.58 g/cc	ASTM D792
Water Absorption	0.060 % @Time 86400 sec	0.060 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.0030 - 0.0050 cm/cm @Thickness 1.50 - 3.20 mm	0.0030 - 0.0050 in/in @Thickness 0.0591 - 0.126 in	SABIC Method
	0.0050 - 0.0080 cm/cm @Thickness 3.20 - 4.60 mm	0.0050 - 0.0080 in/in @Thickness 0.126 - 0.181 in	SABIC Method
Linear Mold Shrinkage, Transverse	0.0040 - 0.0060 cm/cm @Thickness 1.50 - 3.20 mm	0.0040 - 0.0060 in/in @Thickness 0.0591 - 0.126 in	SABIC Method
	0.0060 - 0.0090 cm/cm @Thickness 3.20 - 4.60 mm	0.0060 - 0.0090 in/in @Thickness 0.126 - 0.181 in	SABIC Method

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	119	119	ASTM D785
Tensile Strength at Break	117 MPa	17000 psi	Type I, 5 mm/min; ASTM D638
Flexural Strength	186 MPa	27000 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	7.58 GPa	1100 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	6.94 J/cm	13.0 ft-lb/in	ASTM D4812

Thermal Properties	Metric	English	Comments
	25.2 Âµm/m-Â°C	14.0 Âµin/in-Â°F	

Thermal Properties	Metric	English	Comments
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	25.2 Âµm/m-Â°C	14.0 Âµin/in-Â°F	ASTM E 831
	@Temperature 60.0 - 138 Â°C	@Temperature 140 - 280 Â°F	
Deflection Temperature at 0.46 MPa (66 psi)	212 Â°C	414 Â°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
	215 Â°C	419 Â°F	unannealed; ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	
Deflection Temperature at 1.8 MPa (264 psi)	190 Â°C	374 Â°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
	204 Â°C	399 Â°F	unannealed; ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	
UL RTI, Electrical	130 Â°C	266 Â°F	UL 746B
UL RTI, Mechanical with Impact	130 Â°C	266 Â°F	UL 746B
UL RTI, Mechanical without Impact	140 Â°C	284 Â°F	UL 746B
Flammability, UL94	V-0	V-0	UL 94
	@Thickness 0.730 mm	@Thickness 0.0287 in	
	5VA	5VA	UL 94
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Oxygen Index	32 %	32 %	ASTM D2863

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 3.40e+16 ohm-cm	>= 3.40e+16 ohm-cm	ASTM D257
Dielectric Constant	3.7	3.7	ASTM D150
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	3.8	3.8	ASTM D150
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	19.2 kV/mm	488 kV/in	in air; ASTM D149
	@Thickness 3.20 mm	@Thickness 0.126 in	
	24.0 kV/mm	610 kV/in	in oil; ASTM D149

Electrical Properties	@Thickness 1.60 mm Metric	@Thickness 0.0630 in English	Comments
Dissipation Factor	0.0020	0.0020	ASTM D150
	@Frequency 100 Hz	@Frequency 100 Hz	
	0.020	0.020	ASTM D150
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Arc Resistance	60 - 120 sec	60 - 120 sec	Tungsten; ASTM D495
Comparative Tracking Index	175 - 250 V	175 - 250 V	UL 746A
Hot Wire Ignition, HWI	30 - 60 sec	30 - 60 sec	UL 746A
High Amp Arc Ignition, HAI	>= 120 arcs	>= 120 arcs	UL 746A
High Voltage Arc-Tracking Rate, HVTR	>= 150 mm/min	>= 5.91 in/min	UL 746A

Descriptive Properties	Value	Comments
Specific Volume	0.62cm ³ /g	ASTM D792
UV-light, water exposure/immersion	F2	UL 746C

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