

SABIC Innovative Plastics Valox® 365 PC+PET

Category : Polymer , Thermoplastic , ABS Polymer , Polycarbonate/ABS Alloy, Unreinforced , Polycarbonate (PC)

Material Notes:

Unreinforced, opaque, provides chemical resistance and dimensional stability, UL94V-0 rated at 0.031".

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Valox-365-PCPET.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.33 g/cc	1.33 g/cc	ASTM D792
Water Absorption	0.14 %	0.14 %	ASTM D570
	@Time 86400 sec	@Time 24.0 hour	
Moisture Absorption at Equilibrium	0.60 %	0.60 %	ASTM D570
Linear Mold Shrinkage, Flow	0.0080 - 0.011 cm/cm	0.0080 - 0.011 in/in	SABIC Method
	@Thickness 0.750 - 2.30 mm	@Thickness 0.0295 - 0.0906 in	
	0.010 - 0.014 cm/cm	0.010 - 0.014 in/in	SABIC Method
	@Thickness 2.30 - 4.60 mm	@Thickness 0.0906 - 0.181 in	
Linear Mold Shrinkage, Transverse	0.0090 - 0.013 cm/cm	0.0090 - 0.013 in/in	SABIC Method
	@Thickness 0.750 - 2.30 mm	@Thickness 0.0295 - 0.0906 in	
	0.012 - 0.016 cm/cm	0.012 - 0.016 in/in	SABIC Method
	@Thickness 2.30 - 4.60 mm	@Thickness 0.0906 - 0.181 in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	115	115	ASTM D785
Tensile Strength at Break	41.0 MPa	5950 psi	Type I, 50 mm/min; ASTM D638
Tensile Strength, Yield	41.0 MPa	5950 psi	Type I, 50 mm/min; ASTM D638
Elongation at Break	120 %	120 %	Type I, 50 mm/min; ASTM D638
Flexural Strength	68.0 MPa	9860 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Yield Strength	68.0 MPa	9860 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	2.24 GPa	325 ksi	1.3 mm/min, 50 mm span; ASTM D790

Mechanical Properties	Metric/cm	English/lb/in	Comments
	1.70 J/cm	3.18 ft-lb/in	ASTM D256
	@Temperature -40.0 Â°C	@Temperature -40.0 Â°F	
	1.92 J/cm	3.60 ft-lb/in	ASTM D256
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
Gardner Impact	37.0 J	27.3 ft-lb	ASTM D3029
	37.0 J	27.3 ft-lb	ASTM D3029

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	68.4 Âµm/m-Â°C	38.0 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	79.2 Âµm/m-Â°C	44.0 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 95.0 Â°C	@Temperature -40.0 - 203 Â°F	
	82.8 Âµm/m-Â°C	46.0 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)	129 Â°C	264 Â°F	unannealed; ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	
Deflection Temperature at 1.8 MPa (264 psi)	121 Â°C	250 Â°F	unannealed; ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	
UL RTI, Electrical	105 Â°C	221 Â°F	UL 746B
UL RTI, Mechanical with Impact	105 Â°C	221 Â°F	UL 746B
UL RTI, Mechanical without Impact	105 Â°C	221 Â°F	UL 746B
Flammability, UL94	V-0	V-0	UL 94
	@Thickness 0.760 mm	@Thickness 0.0299 in	
	5VA	5VA	UL 94
	@Thickness 2.20 mm	@Thickness 0.0866 in	
Oxygen Index	28.8 %	28.8 %	ASTM D2863

Electrical Properties	Metric	English	Comments
Dielectric Constant	5.7	5.7	ASTM D150
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	8.5	8.5	ASTM D150
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	12.0 kV/mm	305 kV/in	in oil; ASTM D149
	@Thickness 3.20 mm	@Thickness 0.126 in	
Dissipation Factor	0.0020	0.0020	ASTM D150
	@Frequency 100 Hz	@Frequency 100 Hz	
	0.030	0.030	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	15 - 30 arcs	15 - 30 arcs	UL 746A
High Voltage Arc-Tracking Rate, HVTR	80.0 - 150 mm/min	3.15 - 5.91 in/min	UL 746A

Descriptive Properties	Value	Comments
Specific Volume	0.75cm ³ /g	ASTM D792
UV-light, water exposure/immersion	F2	UL 746C

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