

SABIC Innovative Plastics Valox® 325M PBT (Asia Pacific)

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

Material Notes:

325M is a high flow VALOX 325 for restrictive gate tooling (key buttons) 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-325M-PBT-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.31 g/cc	1.31 g/cc	ASTM D 792
Water Absorption	0.10 %	0.10 %	ASTM D 570
	@Time 86400 sec	@Time 24.0 hour	
Moisture Absorption at Equilibrium	0.34 %	0.34 %	ASTM D 570
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	
Linear Mold Shrinkage, Flow	0.0090 - 0.016 cm/cm	0.0090 - 0.016 in/in	SABIC Method
	@Thickness 0.750 - 2.30 mm	@Thickness 0.0295 - 0.0906 in	
	0.015 - 0.023 cm/cm	0.015 - 0.023 in/in	SABIC Method
	@Thickness 2.30 - 4.60 mm	@Thickness 0.0906 - 0.181 in	
Linear Mold Shrinkage, Transverse	0.010 - 0.017 cm/cm	0.010 - 0.017 in/in	SABIC Method
	@Thickness 0.750 - 2.30 mm	@Thickness 0.0295 - 0.0906 in	
	0.016 - 0.024 cm/cm	0.016 - 0.024 in/in	SABIC Method
	@Thickness 2.30 - 4.60 mm	@Thickness 0.0906 - 0.181 in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	119	119	ASTM D 785
Tensile Strength, Yield	48.0 MPa	6960 psi	Type I, 50 mm/min; ASTM D 638
Elongation at Break	180 %	180 %	Type I, 50 mm/min; ASTM D 638
Flexural Yield Strength	81.0 MPa	11700 psi	1.3 mm/min, 50 mm span; ASTM D 790
Flexural Modulus	2.34 GPa	339 ksi	1.3 mm/min, 50 mm span; ASTM D 790
	0.530 J/cm	0.993 ft-lb/in	

Izod Impact Notched Mechanical Properties	Metric @Temperature 23.0 Â°C	English @Temperature 73.4 Â°F	ASTM D 256 Comments
Izod Impact, Unnotched	16.02 J/cm @Temperature 23.0 Â°C	30.01 ft-lb/in @Temperature 73.4 Â°F	ASTM D 4812
Gardner Impact	40.0 J @Temperature 23.0 Â°C	29.5 ft-lb @Temperature 73.4 Â°F	ASTM D 3029

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	150 Â°C @Thickness 6.40 mm	302 Â°F @Thickness 0.252 in	unannealed; ASTM D 648
Deflection Temperature at 1.8 MPa (264 psi)	55.0 Â°C @Thickness 6.40 mm	131 Â°F @Thickness 0.252 in	unannealed; ASTM D 648
UL RTI, Electrical	120 Â°C	248 Â°F	UL 746B
UL RTI, Mechanical with Impact	120 Â°C	248 Â°F	UL 746B
UL RTI, Mechanical without Impact	140 Â°C	284 Â°F	UL 746B
Flammability, UL94	HB @Thickness 0.830 mm	HB @Thickness 0.0327 in	UL 94

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 2.20e+16 ohm-cm	>= 2.20e+16 ohm-cm	ASTM D 257
Dielectric Constant	3.13 @Frequency 1.00e+6 Hz	3.13 @Frequency 1.00e+6 Hz	ASTM D 150
	3.17 @Frequency 100 Hz	3.17 @Frequency 100 Hz	ASTM D 150
Dielectric Strength	17.8 kV/mm @Thickness 3.20 mm	452 kV/in @Thickness 0.126 in	in air; ASTM D 149
Dissipation Factor	0.0014 @Frequency 100 Hz	0.0014 @Frequency 100 Hz	ASTM D 150
	0.0098 @Frequency 1.00e+6 Hz	0.0098 @Frequency 1.00e+6 Hz	ASTM D 150

Electrical Properties	Metric ^{40 sec}	English ^{40 sec}	Comments ^{LC code 4; ASTM D 495}
Comparative Tracking Index	>= 600 V	>= 600 V	PLC code 0; UL 746A
Hot Wire Ignition, HWI	15 - 30 sec	15 - 30 sec	PLC code 3; UL 746A
High Amp Arc Ignition, HAI	>= 120 arcs	>= 120 arcs	surface, PLC code 0; UL 746A
High Voltage Arc-Tracking Rate, HVTR	10.0 - 25.4 mm/min	0.394 - 1.00 in/min	PLC code 1; UL 746A

Descriptive Properties	Value	Comments
UV-light, water exposure/immersion	F1	UL 746C

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