

SABIC Innovative Plastics Valox® 325FC PBT (Europe-Africa-Middle East)

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

Material Notes:

Commercial, VALOX 325FC is compliant with food contact regulations. VALOX 325FC is a general purpose, unreinforced PBT injection moulding resin which contains internal mold release. This new 325FC grade is a good processable resin that exhibits faster and more economical cycle times.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Valox-325FC-PBT-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.31 g/cc	1.31 g/cc	ASTM D792
Density	1.31 g/cc	0.0473 lb/in ³	ISO 1183
Moisture Absorption	0.0800 %	0.0800 %	23 ^o C / 50% RH; ISO 62
Water Absorption at Saturation	0.34 %	0.34 %	ISO 62
Viscosity	165000 cP	165000 cP	Melt Viscosity, 260 ^o C, 1500 sec-1; ISO 11443
Linear Mold Shrinkage, Flow	0.020 - 0.026 cm/cm	0.020 - 0.026 in/in	on Tensile Bar; SABIC Method
Linear Mold Shrinkage, Transverse	0.0090 - 0.018 cm/cm	0.0090 - 0.018 in/in	on Tensile Bar; SABIC Method
Melt Index of Compound	20 g/10 min	20 g/10 min	MVR [cm ³ /10 min]; ISO 1133
	@Load 2.16 kg, Temperature 250 ^o C	@Load 4.76 lb, Temperature 482 ^o F	
	50 g/10 min	50 g/10 min	MVR [cm ³ /10 min]; ISO 1133
	@Load 5.00 kg, Temperature 250 ^o C	@Load 11.0 lb, Temperature 482 ^o F	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	117	117	ISO 2039-2
Hardness, H358/30	145 MPa	21000 psi	ISO 2039-1
Tensile Strength at Break	60.0 MPa	8700 psi	Type I, 50 mm/min; ASTM D638
	60.0 MPa	8700 psi	50 mm/min; ISO 527
Tensile Strength, Yield	60.0 MPa	8700 psi	Type I, 50 mm/min; ASTM D638
	60.0 MPa	8700 psi	50 mm/min; ISO 527
Elongation at Break	15 %	15 %	Type I, 50 mm/min; ASTM D638

Mechanical Properties	15 % Metric	15 % English	50 mm/min; ISO 527 Comments
Elongation at Yield	7.0 %	7.0 %	Type I, 50 mm/min; ASTM D638
	10 %	10 %	50 mm/min; ISO 527
Tensile Modulus	2.50 GPa	363 ksi	50 mm/min; ASTM D638
	2.55 GPa	370 ksi	1 mm/min; ISO 527
Flexural Yield Strength	85.0 MPa	12300 psi	2 mm/min; ISO 178
Flexural Modulus	2.40 GPa	348 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.380 J/cm	0.712 ft-lb/in	ASTM D256
	0.360 J/cm	0.674 ft-lb/in	ASTM D256
	@Temperature 0.000 °C	@Temperature 32.0 °F	
	0.360 J/cm	0.674 ft-lb/in	ASTM D256
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Izod Impact, Unnotched	NB	NB	ASTM D4812
	NB	NB	ASTM D4812
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Izod Impact, Notched (ISO)	4.00 kJ/m ²	1.90 ft-lb/in ²	80*10*4; ISO 180/1A
	4.00 kJ/m ²	1.90 ft-lb/in ²	80*10*4; ISO 180/1A
	@Temperature 0.000 °C	@Temperature 32.0 °F	
	4.00 kJ/m ²	1.90 ft-lb/in ²	80*10*4; ISO 180/1A
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Izod Impact, Unnotched (ISO)	NB	NB	80*10*4; ISO 180/1U
	100 kJ/m ²	47.6 ft-lb/in ²	80*10*4; ISO 180/1U
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact Unnotched	NB	NB	ISO 179/2C
	8.00 J/cm ²	38.1 ft-lb/in ²	ISO 179/2C
	@Temperature -30.0 °C	@Temperature -22.0 °F	

Charpy Impact, Notched Mechanical Properties	0.400 J/cm ² Metric	1.90 ft-lb/in ² English	ISO 179/2C Comments
	0.400 J/cm ²	1.90 ft-lb/in ²	
	@Temperature -30.0 °C	@Temperature -22.0 °F	ISO 179/2C

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	150 °C	302 °F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
Deflection Temperature at 1.8 MPa (264 psi)	50.0 °C	122 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
Vicat Softening Point	185 °C	365 °F	Rate B/50; ASTM D1525
	185 °C	365 °F	Rate B/50; ISO 306
	185 °C	365 °F	Rate B/120; ISO 306
	220 °C	428 °F	Rate A/50; ISO 306
	220 °C	428 °F	Rate A/50; ASTM D1525

Descriptive Properties	Value	Comments
Ball Pressure Test, 125°C +/- 2°C	PASSES	IEC 60695-10-2

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