

Covestro Bayblend® SF 1443 Polycarbonate + ABS Blend Structural Foam (discontinued **)

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

Material Notes:

Foam thickness 0.250 in. Properties values at foam density of 0.90 g/cc. Information provided by Bayer Corporation, Plastics Division As of 1 September 2015, Bayer Material Science was separated from Bayer AG and has officially adopted its new name – Covestro. This product was discontinued prior to the separation.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Covestro-Bayblend-SF-1443-Polycarbonate-ABS-Blend-Structural-Foam-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	0.900 g/cc	0.0325 lb/in³	Foam; ASTM D792
	1.18 g/cc	0.0426 lb/in³	Solid; ASTM D792
Linear Mold Shrinkage	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	42.0 MPa	6090 psi	ASTM D638
Elongation at Break	3.4 %	3.4 %	ASTM D638
Flexural Yield Strength	80.0 MPa	11600 psi	at 5% strain; ASTM D790
Flexural Modulus	2.62 GPa	380 ksi	ASTM D790
Impact Test	30.0 J	22.1 ft-lb	Instrumented Impact, Total Energy; 3.2 mm thick, 2.5 mph, 3 in. clamp, 0.5 in. dart; ASTM D3763
	@Thickness 3.20 mm	@Thickness 0.126 in	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	94.0 °C	201 °F	Unannealed; ASTM D648
	@Thickness 6.35 mm	@Thickness 0.250 in	
Deflection Temperature at 1.8 MPa (264 psi)	77.0 °C	171 °F	ASTM D648
	@Thickness 6.35 mm	@Thickness 0.250 in	
UL RTI, Electrical	60.0 °C	140 °F	
	@Thickness 3.00 mm	@Thickness 0.118 in	
UL RTI, Mechanical with Impact	60.0 °C	140 °F	
	@Thickness 3.00 mm	@Thickness 0.118 in	
	60.0 °C	140 °F	

UL RTI Mechanical without Impact Thermal Properties	Metric @ Thickness 3.00 mm	English @ Thickness 0.118 in	Comments
Flammability, UL94	V-0	V-0	
	@Thickness 3.00 mm	@Thickness 0.118 in	
	V-0	V-0	
	@Thickness 3.00 mm	@Thickness 0.118 in	

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