

Covestro Bayblend® 2153 Polycarbonate + ABS Blend, General Purpose (discontinued **)

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

Material Notes:

Information provided by Bayer Corporation, Plastics DivisionAs of 1 September 2015, Bayer MaterialScience 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-2153-Polycarbonate-ABS-Blend-General-Purpose-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.13 g/cc	0.0408 lb/in ³	ASTM D792
Linear Mold Shrinkage	0.0070 cm/cm	0.0070 in/in	ASTM D955
Spiral Flow	61.0 cm @Thickness 2.50 mm	24.0 in @Thickness 0.0984 in	at 254°C melt temp.

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	113	113	ASTM D785
Tensile Strength, Yield	51.0 MPa	7400 psi	ASTM D638
Elongation at Break	56 %	56 %	ASTM D638
Tensile Modulus	2.50 GPa	363 ksi	ASTM D638
Flexural Yield Strength	85.0 MPa	12300 psi	ASTM D790
Flexural Modulus	2.34 GPa	339 ksi	ASTM D790
Izod Impact, Notched	2.50 J/cm @Temperature -40.0 °C	4.68 ft-lb/in @Temperature -40.0 °F	ASTM D256
	6.90 J/cm @Thickness 3.17 mm	12.9 ft-lb/in @Thickness 0.125 in	ASTM D256
Impact Test	41.0 J @Thickness 2.50 mm	30.2 ft-lb @Thickness 0.0984 in	Instrumented Impact, Total Energy; 2.5 mm thick, 7.6 mph, 3 in. clamp, 0.5 in. dart; ASTM D3763

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	115 °C @Thickness 3.20 mm	239 °F @Thickness 0.126 in	ASTM D648
	97.0 °C	207 °F	

Thermal Properties <small>Deflection Temperature at 1.8 MPa (1.8 MPa)</small>	Metric <small>@ Thickness 3.17 mm</small>	English <small>@ Thickness 0.125 in</small>	ASTM D648 Comments
Vicat Softening Point	110 °C	230 °F	Rate B; ISO 306
UL RTI, Electrical	85.0 °C <small>@Thickness 1.57 mm</small>	185 °F <small>@Thickness 0.0618 in</small>	
UL RTI, Mechanical with Impact	85.0 °C <small>@Thickness 1.57 mm</small>	185 °F <small>@Thickness 0.0618 in</small>	
UL RTI, Mechanical without Impact	85.0 °C <small>@Thickness 1.57 mm</small>	185 °F <small>@Thickness 0.0618 in</small>	
Flammability, UL94	HB <small>@Thickness 1.57 mm</small>	HB <small>@Thickness 0.0618 in</small>	
	HB <small>@Thickness 1.57 mm</small>	HB <small>@Thickness 0.0618 in</small>	

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	175 V	175 V	IEC 112

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