

Westlake Plastics Absylux® FR Acrylonitrile-Butadiene-Styrene Flame Retardant

Category : Polymer , Thermoplastic , ABS Polymer , Acrylonitrile Butadiene Styrene (ABS), Unreinforced, Flame Retardant

Material Notes:

Absylux ABS is a low cost engineering plastic that is easy to machine and fabricate. It is an ideal material for structural applications when impact resistance, strength, and stiffness are required. Absylux is widely used for machining preproduction prototypes since it has excellent dimensional stability and is easy to paint and glue. This is also available in flame retardant grade. Information provided by Westlake Plastics.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Westlake-Plastics-Absylux-FR-Acrylonitrile-Butadiene-Styrene-Flame-Retardant.php

Physical Properties	Metric	English	Comments
Density	1.22 g/cc	0.0441 lb/in ³	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	97	97	ASTM D7852
Tensile Strength, Yield	37.9 MPa	5500 psi	ASTM D638
Tensile Modulus	2.21 GPa	320 ksi	ASTM D638
Flexural Yield Strength	65.5 MPa	9500 psi	ASTM D790
Flexural Modulus	2.28 GPa	330 ksi	ASTM D790
Compressive Strength	52.7 MPa	7650 psi	ASTM D695
Compressive Modulus	1.38 GPa	200 ksi	ASTM D695
Izod Impact, Notched	2.14 J/cm	4.00 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	73.8 µm/m-°C	41.0 µin/in-°F	ASTM E831
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Deflection Temperature at 0.46 MPa (66 psi)	90.6 °C	195 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	78.3 °C	173 °F	ASTM D648
Flammability, UL94	V-0	V-0	
	@Thickness 1.47 mm	@Thickness 0.0580 in	

Electrical Properties	Metric	English	Comments
Dielectric Strength	40.0 kV/mm	1020 kV/in	ASTM D149

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