

Diamond Polymers Centrex® 601 Profile Extrusion Grade AES

Category : Polymer , Thermoplastic , AES Polymer , AES, Extruded

Material Notes:

Centrex 601 resin is a very high-impact, low-gloss AES (acrylonitrile-ethylene-propylene-styrene) resin with good resistance to weather aging. It has good melt strength for profile extrusion and can be coextruded over polyvinyl chloride (PVC). Applications: Typical applications for Centrex 601 resin include exterior siding and window frames panels. As with any product, use of Centrex 601 resin in a given application must be tested (including but not limited to field testing) in advance by the user to determine suitability. Information Provided by Diamond Polymers, Inc. & Network Polymers, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Diamond-Polymers-Centrex-601-Profile-Extrusion-Grade-AES.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.00 g/cc	1.00 g/cc	ASTM D792
Melt Flow	6.0 g/10 min	6.0 g/10 min	ASTM D1238
	@Load 10.0 kg, Temperature 230 °C	@Load 22.0 lb, Temperature 446 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	23.4 MPa	3390 psi	chs 2.0 in/min; ASTM D638
Tensile Strength, Yield	28.3 MPa	4100 psi	chs 2.0 in/min; ASTM D638
Tensile Modulus	1.722 GPa	249.8 ksi	chs 2.0 in/min; ASTM D638
Flexural Strength	44.1 MPa	6400 psi	chs 0.05 in/min; ASTM D790
Flexural Modulus	1.585 GPa	229.9 ksi	tangent; chs 0.05 in/min; ASTM D790
Izod Impact, Notched	0.800 J/cm	1.50 ft-lb/in	ASTM D256
	@Thickness 3.17 mm, Temperature -40.0 °C	@Thickness 0.125 in, Temperature -40.0 °F	
	1.28 J/cm	2.40 ft-lb/in	ASTM D256
	@Thickness 3.17 mm, Temperature -18.0 °C	@Thickness 0.125 in, Temperature -0.400 °F	
	5.34 J/cm	10.0 ft-lb/in	ASTM D256
	@Thickness 3.17 mm, Temperature 23.0 °C	@Thickness 0.125 in, Temperature 73.4 °F	
Impact Test	26.0 J	19.2 ft-lb	ASTM D3763
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	38.0 J	28.0 ft-lb	

Mechanical Properties	Metric @ Temperature 23.0 °C	English @ Temperature 73.4 °F	ASTM D3763 Comments
	41.0 J	30.2 ft-lb	
	@Temperature -18.0 °C	@Temperature -0.400 °F	ASTM D3763

Thermal Properties	Metric	English	Comments
CTE, linear	28.0 µm/m-°C	15.6 µin/in-°F	ASTM D696

Optical Properties	Metric	English	Comments
Gloss	50 - 70 %	50 - 70 %	Sheet/Profile; 60°; ASTM D523

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