

Ascend Performance Materials VYDYNE® 45 Nylon, Impact Modified, Weather Stable

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Impact Grade

Material Notes:

Typical property data. VYDYNE is a registered trademark of Solutia Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Ascend-Performance-Materials-VYDYNE-45-Nylon-Impact-Modified-Weather-Stable.php

Physical Properties	Metric	English	Comments
Density	1.12 g/cc	0.0405 lb/in ³	ASTM D792
Water Absorption	1.15 %	1.15 %	24 hours; ASTM D570
Linear Mold Shrinkage	0.019 cm/cm	0.019 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	68.0 MPa	9860 psi	ASTM D638
Elongation at Break	28 %	28 %	ASTM D638
Flexural Yield Strength	85.0 MPa	12300 psi	ASTM D790
Flexural Modulus	2.50 GPa	363 ksi	ASTM D790
Izod Impact, Notched	1.20 J/cm @Thickness 3.17 mm	2.25 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
Melting Point	261 °C	502 °F	ASTM D1525
Deflection Temperature at 0.46 MPa (66 psi)	108 °C @Thickness 3.20 mm	226 °F @Thickness 0.126 in	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	78.0 °C @Thickness 3.20 mm	172 °F @Thickness 0.126 in	Unannealed; ASTM D648
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	3.20e+15 ohm-cm	3.20e+15 ohm-cm	ASTM D257
Dielectric Constant	3.11 @Frequency 1e+6 Hz	3.11 @Frequency 1e+6 Hz	ASTM D150

Electrical Properties	Metric	English	Comments
	@Frequency 1000 Hz	@Frequency 1000 Hz	ASTM D150
	3.56	3.56	ASTM D150
	@Frequency 100 Hz	@Frequency 100 Hz	ASTM D150
	20.0 kV/mm	508 kV/in	Step by step; ASTM D149
Dielectric Strength	21.2 kV/mm	538 kV/in	Short Time; ASTM D149
	0.020	0.020	ASTM D150
Dissipation Factor	@Frequency 100 Hz	@Frequency 100 Hz	ASTM D150
	0.020	0.020	ASTM D150
	@Frequency 1000 Hz	@Frequency 1000 Hz	ASTM D150
	0.020	0.020	ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	ASTM D150

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