

BASF Ultramid® 8350 HS PA6 (Dry)

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , Impact Grade

Material Notes:

Ultramid 8350 HS is a heat stabilized, impact modified type 6 graft copolymer developed for extrusion, tubing, and jacketing applications requiring a high level of toughness combined with a moderate level of flexibility. It is also available in non-heat stabilized (Ultramid 8350) and/or pigmented versions.

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Ultramid-8350-HS-PA6-Dry.php

Physical Properties	Metric	English	Comments
Density	1.07 g/cc	0.0387 lb/in ³	ISO 1183
Water Absorption	1.1 %	1.1 %	24 hour; ISO Test
	6.7 %	6.7 %	ISO 62
Moisture Absorption at Equilibrium	1.9 %	1.9 %	23°C/50% R.H.; ISO 62
Linear Mold Shrinkage	0.014 cm/cm	0.014 in/in	ASTM Data; MD

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	78	78	ASTM Test
Tensile Strength, Yield	53.0 MPa	7690 psi	50mm/min; ISO 527
	53.0 MPa	7690 psi	2 in/min; ASTM Test
	14.0 MPa	2030 psi	ISO Data
	@Temperature 120 °C	@Temperature 248 °F	
	14.0 MPa	2030 psi	ASTM Test
	@Temperature 120 °C	@Temperature 248 °F	
	20.0 MPa	2900 psi	ASTM Test
	@Temperature 80.0 °C	@Temperature 176 °F	
	20.0 MPa	2900 psi	ISO Data
	@Temperature 80.0 °C	@Temperature 176 °F	
	85.0 MPa	12300 psi	ASTM Test
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	85.0 MPa	12300 psi	ISO Data
	@Temperature -40.0 °C	@Temperature -40.0 °F	

Mechanical Properties	≥ 50 % Metric	≥ 50 % English	50mm/min Nominal strain; ISO 527 Comments
	≥ 100 %	≥ 100 %	2 in/min; ASTM Test
Elongation at Yield	5.0 %	5.0 %	50mm/min; ISO 527
	5.0 %	5.0 %	2 in/min; ASTM Test
	8.0 %	8.0 %	ASTM Test
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	8.0 %	8.0 %	ISO Data
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	27 %	27 %	ISO Data
	@Temperature 120 °C	@Temperature 248 °F	
	27 %	27 %	ASTM Test
	@Temperature 120 °C	@Temperature 248 °F	
	37 %	37 %	ISO Data
	@Temperature 80.0 °C	@Temperature 176 °F	
	37 %	37 %	ASTM Test
	@Temperature 80.0 °C	@Temperature 176 °F	
Tensile Modulus	1.80 GPa	261 ksi	1mm/min; ISO 527
	0.150 GPa	21.8 ksi	ISO Data
	@Temperature 120 °C	@Temperature 248 °F	
	0.210 GPa	30.5 ksi	ISO Data
	@Temperature 80.0 °C	@Temperature 176 °F	
	2.15 GPa	312 ksi	ISO Data
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Flexural Strength	50.0 MPa	7250 psi	ISO Data
	65.0 MPa	9430 psi	ASTM Test
	10.0 MPa	1450 psi	ASTM Test
	@Temperature 120 °C	@Temperature 248 °F	
	10.0 MPa	1450 psi	ASTM Test
	@Temperature 93.0 °C	@Temperature 199 °F	
	20.0 MPa	2900 psi	ASTM Test

Mechanical Properties	@Temperature 65.0 °C Metric	@Temperature 149 °F English	Comments
	120 MPa	17400 psi	ASTM Test
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Flexural Modulus	1.75 GPa	254 ksi	ISO Data
	1.80 GPa	261 ksi	ASTM Test
	0.165 GPa	23.9 ksi	ASTM Test
	@Temperature 120 °C	@Temperature 248 °F	
	0.210 GPa	30.5 ksi	ASTM Test
	@Temperature 93.0 °C	@Temperature 199 °F	
	0.270 GPa	39.2 ksi	ASTM Test
	@Temperature 65.0 °C	@Temperature 149 °F	
Izod Impact, Notched	1.90 J/cm	3.56 ft-lb/in	ASTM Test
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	NB	NB	ASTM Test
	@Thickness 3.17 mm	@Thickness 0.125 in	
Charpy Impact Unnotched	NB	NB	ISO 179
Charpy Impact, Notched	10.0 J/cm ²	47.6 ft-lb/in ²	ISO 179
	1.50 J/cm ²	7.14 ft-lb/in ²	ISO 179
	@Temperature -30.0 °C	@Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
CTE, linear	106 µm/m-°C	58.9 µin/in-°F	ASTM Test
	@Temperature -30.0 - 30.0 °C	@Temperature -22.0 - 86.0 °F	
Melting Point	220 °C	428 °F	10 K/min
	220 °C	428 °F	ASTM Test
Deflection Temperature at 0.46 MPa (66 psi)	145 °C	293 °F	ASTM Test
	145 °C	293 °F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	51.0 °C	124 °F	ISO 75
	56.0 °C	133 °F	ASTM Test

Flammability, UL 94 Thermal Properties	HB Metric	HB English	Comments
	HB	HB	
	@Thickness 3.00 mm	@Thickness 0.118 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+13 ohm-cm	>= 1.00e+13 ohm-cm	IEC 60093
Comparative Tracking Index	600 V	600 V	IEC 60112

Processing Properties	Metric	English	Comments
Melt Temperature	280 °C	536 °F	Injection molding
Mold Temperature	70.0 °C	158 °F	Injection molding

Descriptive Properties	Value	Comments
Color	Natural	
Commercial Status	Active America	
Form	Pellets	
Impact Modified	Yes	
Primary Processing Technique	Extrusion	
Processing	Injection Molding	
	Other Extrusion	
	Profile extrusion	
Special characteristic	Heat stabilized or stable to heat	
UL.UL-C	Yes	

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