

BASF Ultramid® 8350 HS PA6 (Conditioned)

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-Conditioned.php

Physical Properties	Metric	English	Comments
Density	1.07 g/cc	0.0387 lb/in ³	dry; ISO 1183
Water Absorption	1.1 %	1.1 %	24 hour; ISO Test
	6.7 %	6.7 %	beginning dry; ISO 62
Moisture Absorption at Equilibrium	1.9 %	1.9 %	beginning dry (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
Tensile Strength, Yield	32.0 MPa	4640 psi	2 in/min; ASTM Test
	32.0 MPa	4640 psi	50mm/min; ISO 527
	95.0 MPa	13800 psi	ISO Data
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	95.0 MPa	13800 psi	ASTM Test
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Elongation at Break	>= 50 %	>= 50 %	50mm/min, Nominal strain; ISO 527
	>= 100 %	>= 100 %	2 in/min; ASTM Test
Elongation at Yield	9.0 %	9.0 %	50mm/min; ISO 527
	9.0 %	9.0 %	2 in/min; ASTM Test
Tensile Modulus	0.675 GPa	97.9 ksi	1mm/min; ISO 527
Flexural Strength	30.0 MPa	4350 psi	ASTM Test
	120 MPa	17400 psi	ASTM Test
	@Temperature -40.0 °C	@Temperature -40.0 °F	

Flexural Modulus Mechanical Properties	0.620 GPa Metric	89.9 ksi English	ASTM Test Comments
Izod Impact, Notched	1.55 J/cm	2.90 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	

Thermal Properties	Metric	English	Comments
Melting Point	220 °C	428 °F	10 K/min
	220 °C	428 °F	ASTM Test

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.U.L-C	Yes	

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