

BASF Ultramid® 8350 HS BK-102 PA6 (Dry)

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

Material Notes:

Ultramid 8350 HS BK-102 is a type 6, black pigmented, impact modified graft copolymer developed for extrusion, tubing, and jacketing applications requiring a high level of toughness combined with a moderate level of flexibility.

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Ultramid-8350-HS-BK-102-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	52.0 MPa	7540 psi	50mm/min; ISO 527
	55.0 MPa	7980 psi	2 in/min; ASTM Test
Elongation at Break	>= 50 %	>= 50 %	50mm/min, Nominal strain; ISO 527
	>= 100 %	>= 100 %	2 in/min; ASTM Test
Elongation at Yield	4.5 %	4.5 %	50mm/min; ISO 527
	5.0 %	5.0 %	2 in/min; ASTM Test
Tensile Modulus	1.80 GPa	261 ksi	1mm/min; ISO 527
Flexural Strength	55.0 MPa	7980 psi	ISO Data
	65.0 MPa	9430 psi	ASTM Test
Flexural Modulus	1.60 GPa	232 ksi	ISO Data
	1.89 GPa	274 ksi	ASTM Test
Izod Impact, Notched	NB	NB	ASTM Test
	@Thickness 3.17 mm	@Thickness 0.125 in	
Izod Impact, Notched (ISO)	NB	NB	ISO Test

Mechanical Properties	Metric	English	Comments
	@Temperature -40.0 °C	@Temperature -40.0 °F	ISO Test
Charpy Impact Unnotched	NB	NB	ISO 179
Charpy Impact, Notched	8.30 J/cm ²	39.5 ft-lb/in ²	ISO 179

Thermal Properties	Metric	English	Comments
CTE, linear	106 µm/m-°C @Temperature -30.0 - 30.0 °C	58.9 µin/in-°F @Temperature -22.0 - 86.0 °F	ASTM Test
Melting Point	220 °C	428 °F	10 K/min
	220 °C	428 °F	ASTM Test
Deflection Temperature at 0.46 MPa (66 psi)	140 °C	284 °F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	50.0 °C	122 °F	ISO 75
	56.0 °C	133 °F	ASTM Test
Flammability, UL94	HB	HB	
	HB @Thickness 3.00 mm	HB @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	BK-102	
Commercial Status	Active America	
Form	Pellets	
Impact Modified	Yes	

Descriptive Properties Primary Processing Technique	Value Extrusion	Comments
Processing	Injection Molding	
	Other Extrusion	
	Profile extrusion	
Special characteristic	Heat stabilized or stable to heat	
UL.UL-C	Yes	

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