

BASF Ultramid® 8254 HS BK-102 PA6 (Dry)

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

Material Notes:

Ultramid 8254 HS is a highly flexible, heat stabilized, impact modified nylon 6 extrusion grade for tubing applications.

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Ultramid-8254-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	1.2 %	1.2 %	24 hour; ISO Test
	7.1 %	7.1 %	ISO 62
Moisture Absorption at Equilibrium	2.0 %	2.0 %	23°C/50% R.H.; ISO 62
Linear Mold Shrinkage	0.013 cm/cm	0.013 in/in	ASTM Data; MD

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	40	40	ASTM Test
Tensile Strength, Yield	34.0 MPa	4930 psi	50mm/min; ISO 527
	34.0 MPa	4930 psi	2 in/min; ASTM Test
	12.0 MPa	1740 psi	ISO Data
	@Temperature 120 °C	@Temperature 248 °F	
	12.0 MPa	1740 psi	ASTM Test
	@Temperature 120 °C	@Temperature 248 °F	
	15.0 MPa	2180 psi	ASTM Test
	@Temperature 80.0 °C	@Temperature 176 °F	
	15.0 MPa	2180 psi	ISO Data
	@Temperature 80.0 °C	@Temperature 176 °F	
	83.0 MPa	12000 psi	ASTM Test
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	83.0 MPa	12000 psi	ISO Data
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Elongation at Break	>= 50 %	>= 50 %	50mm/min, Nominal strain; ISO 527

Mechanical Properties	$\geq 100\%$ Metric	$\geq 100\%$ English	2 in/min; ASTM Test Comments
Elongation at Yield	7.0 %	7.0 %	50mm/min; ISO 527
	30 %	30 %	2 in/min; ASTM Test
	4.0 % @Temperature -40.0 °C	4.0 % @Temperature -40.0 °F	ISO Data
	20 % @Temperature 120 °C	20 % @Temperature 248 °F	ISO Data
Tensile Modulus	0.875 GPa	127 ksi	1mm/min; ISO 527
	0.155 GPa @Temperature 120 °C	22.5 ksi @Temperature 248 °F	ISO Data
	0.180 GPa @Temperature 80.0 °C	26.1 ksi @Temperature 176 °F	ISO Data
	2.73 GPa @Temperature -40.0 °C	396 ksi @Temperature -40.0 °F	ISO Data
Flexural Strength	28.0 MPa	4060 psi	ASTM Test
Flexural Modulus	0.610 GPa	88.5 ksi	ASTM Test
	0.750 GPa	109 ksi	ISO Data
Izod Impact, Notched	6.40 J/cm @Thickness 3.17 mm	12.0 ft-lb/in @Thickness 0.125 in	ASTM Test
Izod Impact, Notched (ISO)	NB	NB	ISO Test
	6.00 kJ/m ² @Temperature -40.0 °C	2.86 ft-lb/in ² @Temperature -40.0 °F	ISO Test

Thermal Properties	Metric	English	Comments
CTE, linear	117 $\mu\text{m}/\text{m}\cdot\text{°C}$ @Temperature -30.0 - 30.0 °C	65.0 $\mu\text{in}/\text{in}\cdot\text{°F}$ @Temperature -22.0 - 86.0 °F	ASTM Test
CTE, linear, Parallel to Flow	93.0 $\mu\text{m}/\text{m}\cdot\text{°C}$	51.7 $\mu\text{in}/\text{in}\cdot\text{°F}$	ISO 11359
CTE, linear, Transverse to Flow	111 $\mu\text{m}/\text{m}\cdot\text{°C}$	61.7 $\mu\text{in}/\text{in}\cdot\text{°F}$	ISO 11359
Melting Point	220 °C	428 °F	10 K/min
	220 °C	428 °F	ASTM Test

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.45 MPa (66 psi)	119 °C	246 °F	ISO 75
	124 °C	255 °F	ASTM Test
Deflection Temperature at 1.8 MPa (264 psi)	43.0 °C	109 °F	ISO 75
	47.0 °C	117 °F	ASTM Test
Flammability, UL94	HB	HB	
	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

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	
Primary Processing Technique	Extrusion	
Processing	Injection Molding	
	Other Extrusion	
	Profile Extrusion	
Special characteristic	Heat stabilized or stable to heat	
UL.U.L-C	Yes	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215, Fengxian District, Shanghai City, China