

BASF Ultramid® 8202C HS PA6 (Conditioned)

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , Unreinforced, Flame Retardant

Material Notes:

Ultramid 8202C HS is a heat stabilized, low viscosity, PA6 injection molding homopolymer possessing a modified crystalline structure for increased property performance and faster cycles. It is also available in pigmented versions.

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Ultramid-8202C-HS-PA6-Conditioned.php

Physical Properties	Metric	English	Comments
Density	1.13 g/cc	0.0408 lb/in ³	dry; ISO 1183
Water Absorption	1.6 %	1.6 %	24 hour; ISO Test
	9.3 %	9.3 %	beginning dry; ISO 62
Moisture Absorption at Equilibrium	2.6 %	2.6 %	beginning dry (23°C/50% R.H.); ISO 62
Relative Viscosity	2.6 cP	2.6 cP	ISO Test; 96 % SAV
Viscosity Measurement	48	48	Formic Acid
Linear Mold Shrinkage	0.0090 cm/cm	0.0090 in/in	ASTM Data; MD

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	70.0 MPa	10200 psi	0.2 in/min; ASTM Test
	20.0 MPa	2900 psi	ISO Data
	@Temperature 120 °C	@Temperature 248 °F	
	20.0 MPa	2900 psi	ASTM Test
	@Temperature 120 °C	@Temperature 248 °F	
	30.0 MPa	4350 psi	ASTM Test
	@Temperature 80.0 °C	@Temperature 176 °F	
	30.0 MPa	4350 psi	ISO Data
	@Temperature 80.0 °C	@Temperature 176 °F	
	80.0 MPa	11600 psi	ASTM Test
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	80.0 MPa	11600 psi	ISO Data
	@Temperature -40.0 °C	@Temperature -40.0 °F	

Tensile Strength Yield Mechanical Properties	43.0 MPa Metric	6240 psi English	50mm/min; ISO 527 Comments
	48.0 MPa	6960 psi	2 in/min; ASTM Test
	25.0 MPa	3630 psi	ISO Data
	@Temperature 120 °C	@Temperature 248 °F	
	25.0 MPa	3630 psi	ASTM Test
	@Temperature 120 °C	@Temperature 248 °F	
	30.0 MPa	4350 psi	ASTM Test
	@Temperature 80.0 °C	@Temperature 176 °F	
	30.0 MPa	4350 psi	ISO Data
	@Temperature 80.0 °C	@Temperature 176 °F	
	142 MPa	20600 psi	ASTM Test
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	142 MPa	20600 psi	ISO Data
	@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
	>= 100 %	>= 100 %	
	3.0 %	3.0 %	ASTM Test
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	3.0 %	3.0 %	ISO Data
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	>= 100 %	>= 100 %	ISO Data
	@Temperature 120 °C	@Temperature 248 °F	
	>= 100 %	>= 100 %	ISO Data
	@Temperature 80.0 °C	@Temperature 176 °F	
	>= 100 %	>= 100 %	ASTM Test
	@Temperature 120 °C	@Temperature 248 °F	
Elongation at Yield	22 %	22 %	50mm/min; ISO 527
	22 %	22 %	2 in/min; ASTM Test
	3.0 %	3.0 %	ASTM Test

Mechanical Properties	@Temperature -40.0 °C Metric	@Temperature -40.0 °F English	Comments
	3.0 %	3.0 %	ISO Data
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	25 %	25 %	ISO Data
	@Temperature 80.0 °C	@Temperature 176 °F	
	25 %	25 %	ASTM Test
	@Temperature 80.0 °C	@Temperature 176 °F	
	30 %	30 %	ASTM Test
	@Temperature 120 °C	@Temperature 248 °F	
	30 %	30 %	ISO Data
	@Temperature 120 °C	@Temperature 248 °F	
Tensile Modulus	1.36 GPa	197 ksi	1mm/min; ISO 527
Flexural Strength	42.0 MPa	6090 psi	ASTM Test
	168 MPa	24400 psi	ASTM Test
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Flexural Modulus	0.970 GPa	141 ksi	ASTM Test
Izod Impact, Notched	0.210 J/cm	0.393 ft-lb/in	ASTM Test
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	1.71 J/cm	3.20 ft-lb/in	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	260 °C	500 °F	Injection molding
Mold Temperature	80.0 °C	176 °F	Injection molding

Descriptive Properties	Value	Comments
Color	Natural	
Commercial Status	Active America	

Descriptive Properties Form	Value Pellets	Comments
Impact Modified	No	
Primary Processing Technique	Injection Molding	
Processing	Injection Molding	
Special characteristic	Heat stabilized or stable to heat	
UL.UL-C	Yes	

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