

BASF Ultramid® 8202C PA6 (Conditioned)

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

Material Notes:

Ultramid 8202C is a modified crystalline and low viscosity, nylon 6 injection molding homopolymer. It is also available in heat stabilized (Ultramid 8202C HS) and/or pigmented versions. Its unique crystalline structure results in increased strength, stiffness, heat distortion temperature and performance under load as a homopolymer. It also cycles faster while maintaining properties and resistance.

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Ultramid-8202C-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	

Mechanical Properties	Metric (Pa)	English (psi)	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 %	

Mechanical Properties	Metric @Temperature -40.0 °C	English @Temperature -40.0 °F	ASTM Test Comments
	3.0 % @Temperature -40.0 °C	3.0 % @Temperature -40.0 °F	ISO Data
	25 % @Temperature 80.0 °C	25 % @Temperature 176 °F	ISO Data
	25 % @Temperature 80.0 °C	25 % @Temperature 176 °F	ASTM Test
	30 % @Temperature 120 °C	30 % @Temperature 248 °F	ASTM Test
	30 % @Temperature 120 °C	30 % @Temperature 248 °F	ISO Data
Tensile Modulus	1.36 GPa	197 ksi	1mm/min; ISO 527
Flexural Strength	42.0 MPa	6090 psi	ASTM Test
	168 MPa @Temperature -40.0 °C	24400 psi @Temperature -40.0 °F	ASTM Test
Flexural Modulus	0.970 GPa	141 ksi	ASTM Test
Izod Impact, Notched	0.210 J/cm @Temperature -40.0 °C	0.393 ft-lb/in @Temperature -40.0 °F	ASTM Test
	1.71 J/cm @Thickness 3.17 mm	3.20 ft-lb/in @Thickness 0.125 in	ASTM Test

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 Descriptive Properties	Active America Value	Comments
Form	Pellets	
Impact Modified	No	
Primary Processing Technique	Injection Molding	
Processing	Injection Molding	
UL.UL-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