

BASF Ultramid® 8202 PA6 (Conditioned)

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

Material Notes:

Ultramid 8202 is a low viscosity, general purpose polyamide 6 injection molding homopolymer exhibiting excellent melt fluidity for filling thin sections. It is also available in heat stabilized (Ultramid 8202 HS) and/or pigmented versions. It combines good strength, stiffness and toughness as well as excellent heat, chemical and abrasion resistance.

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Density	0.932 g/cc	0.0337 lb/in ³	Melt; ISO 1183
	1.13 g/cc	0.0408 lb/in ³	dry; ISO 1183
Water Absorption	1.6 %	1.6 %	24 hour; ISO Test
	9.5 %	9.5 %	beginning dry; ISO 62
Moisture Absorption at Equilibrium	2.7 %	2.7 %	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	0.012 cm/cm	0.012 in/in	ASTM Data; MD

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	60.0 MPa	8700 psi	0.2 in/min; ASTM Test
	80.0 MPa	11600 psi	ASTM Test
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Tensile Strength, Yield	80.0 MPa	11600 psi	ISO Data
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	36.0 MPa	5220 psi	2 in/min; ASTM Test
Tensile Strength, Yield	36.0 MPa	5220 psi	50mm/min; ISO 527
	20.0 MPa	2900 psi	ISO Data
	@Temperature 120 °C	@Temperature 248 °F	
Tensile Strength, Yield	20.0 MPa	2900 psi	ASTM Test
	@Temperature 120 °C	@Temperature 248 °F	

Mechanical Properties	30.0 MPa Metric	4350 psi English	Comments
	@Temperature 80.0 °C	@Temperature 176 °F	
	30.0 MPa	4350 psi	ISO Data
	@Temperature 80.0 °C	@Temperature 176 °F	
	110 MPa	16000 psi	ASTM Test
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	110 MPa	16000 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
	2.5 %	2.5 %	ASTM Test
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	2.5 %	2.5 %	ISO Data
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Elongation at Yield	16 %	16 %	50mm/min; ISO 527
	16 %	16 %	2 in/min; ASTM Test
	35 %	35 %	ASTM Test
	@Temperature 80.0 °C	@Temperature 176 °F	
	35 %	35 %	ISO Data
	@Temperature 80.0 °C	@Temperature 176 °F	
	40 %	40 %	ASTM Test
	@Temperature 120 °C	@Temperature 248 °F	
	40 %	40 %	ISO Data
	@Temperature 120 °C	@Temperature 248 °F	
Tensile Modulus	0.970 GPa	141 ksi	1mm/min; ISO 527
	0.320 GPa	46.4 ksi	ISO Data
	@Temperature 120 °C	@Temperature 248 °F	
	0.550 GPa	79.8 ksi	ISO Data
	@Temperature 80.0 °C	@Temperature 176 °F	
	4.00 GPa	580 ksi	ISO Data

Mechanical Properties	Metric	English	Comments
Flexural Strength	25.0 MPa	3630 psi	ISO Data
	35.0 MPa	5080 psi	ASTM Test
	154 MPa	22300 psi	ASTM Test
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Flexural Modulus	0.740 GPa	107 ksi	ASTM Test
	0.770 GPa	112 ksi	ISO Data
Izod Impact, Notched	0.430 J/cm	0.806 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
Specific Heat Capacity	3.728 J/g-°C	0.8910 BTU/lb-°F	Melt
Thermal Conductivity	0.264 W/m-K	1.83 BTU-in/hr-ft ² -°F	Melt
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	
Form	Pellets	
Impact Modified	No	
Primary Processing Technique	Injection Molding	
Processing	Injection Molding	
UL.UL-C	Yes	

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