

BASF Ultramid® 8202CQ PA6 (Conditioned)

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

Material Notes:

Ultramid 8202CQ is a low viscosity, PA6 injection molding homopolymer, possessing a modified crystalline structure or 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-8202CQ-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
	9.2 %	9.2 %	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	0.010 cm/cm	0.010 in/in	ASTM Data; MD

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	43.0 MPa	6240 psi	2 in/min; ASTM Test
	43.0 MPa	6240 psi	50mm/min; ISO 527
	142 MPa	20600 psi	ISO Data
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	142 MPa	20600 psi	ASTM Test
	@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
Elongation at Yield	14 %	14 %	50mm/min; ISO 527
	14 %	14 %	2 in/min; ASTM Test
	3.0 %	3.0 %	ISO Data
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Tensile Modulus	1.22 GPa	177 ksi	1mm/min; ISO 527

Mechanical Properties	Metric	English	Comments
	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
	1.01 GPa	146 ksi	ISO Data
Izod Impact, Notched	0.210 J/cm	0.393 ft-lb/in	ASTM Test
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	1.60 J/cm	3.00 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	
Form	Pellets	
Impact Modified	No	
Primary Processing Technique	Injection Molding	
Processing	Injection Molding	
UL-UL-C	Yes	

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