

BASF Capron® 8202 NL Nylon 6 (Conditioned) (discontinued **)

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

Material Notes:

Information provided by BASF Corporation. Capron® is no longer a part of the BASF standard line. The BASF nylon products have been consolidated in the Ultramid® line.

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Capron-8202-NL-Nylon-6-Conditioned-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.13 g/cc	0.0408 lb/in ³	(DAM); ISO 1183
Water Absorption	1.6 %	1.6 %	24 hr. (DAM); ISO 62
	9.5 %	9.5 %	(Beginning DAM); ISO 62
Moisture Absorption at Equilibrium	2.7 %	2.7 %	23°C/50% R.H. (Beginning DAM); ISO 62
Viscosity Measurement	48	48	Formic Acid; ASTM D789
Linear Mold Shrinkage	0.012 cm/cm	0.012 in/in	MD; ASTM Test

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	60.0 MPa	8700 psi	0.2 in/min; ASTM D638
Tensile Strength, Ultimate	80.0 MPa	11600 psi	ASTM D638
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	80.0 MPa	11600 psi	ISO 527
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Tensile Strength, Yield	36.0 MPa	5220 psi	50 mm/min; ISO 527
	36.0 MPa	5220 psi	2 in/min; ASTM D638
	21.0 MPa	3050 psi	ASTM D638
	@Temperature 120 °C	@Temperature 248 °F	
	21.0 MPa	3050 psi	ISO 527
	@Temperature 120 °C	@Temperature 248 °F	
	30.0 MPa	4350 psi	ASTM D638
	@Temperature 80.0 °C	@Temperature 176 °F	
	30.0 MPa	4350 psi	ISO 527

Mechanical Properties	@Temperature 80.0 °C Metric	@Temperature 176 °F English	Comments
	110 MPa	16000 psi	ASTM D638
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	110 MPa	16000 psi	ISO 527
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Elongation at Break	>= 50 %	>= 50 %	50 mm/min; Nominal; ISO 527
	>= 100 %	>= 100 %	2 in/min; ASTM D638
	2.5 %	2.5 %	ASTM D638
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Elongation at Yield	16 %	16 %	50 mm/min; ISO 527
	16 %	16 %	2 in/min; ASTM D638
	35 %	35 %	ASTM D638
	@Temperature 80.0 °C	@Temperature 176 °F	
	40 %	40 %	ASTM D638
	@Temperature 120 °C	@Temperature 248 °F	
Tensile Modulus	0.970 GPa	141 ksi	1 mm/min; ISO 527
Flexural Strength	35.0 MPa	5080 psi	ASTM D790
	155 MPa	22500 psi	ASTM D790
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Flexural Modulus	0.740 GPa	107 ksi	ASTM D790
	3.66 GPa	531 ksi	ASTM D790
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Izod Impact, Notched	NB	NB	ASTM D256
	0.450 J/cm	0.843 ft-lb/in	ASTM D256
	@Temperature -40.0 °C	@Temperature -40.0 °F	

Thermal Properties	Metric	English	Comments
Melting Point	220 °C	428 °F	10 K/min (DAM)
	220 °C	428 °F	(DAM); ASTM D3418

Descriptive Properties	Value	Comments
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Descriptive Properties	Value	Comments
Color	Natural	
Commercial Status (March 2007)	Active America	
FDA	21 CFR 177.1500	
Form	Pellets	
Impact Modified	No	
Injection molding	Processable	
Primary Processing Technique	Film Extrusion	

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