

BASF Capron® 8202 NL Nylon 6 (DAM) (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-DAM-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.13 g/cc	0.0408 lb/in³	ISO 1183
Water Absorption	1.6 %	1.6 %	24 hr.; ISO 62
	9.5 %	9.5 %	ISO 62
Moisture Absorption at Equilibrium	2.7 %	2.7 %	23°C/50% R.H.; 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
Hardness, Rockwell R	119	119	ASTM D785
Tensile Strength at Break	75.0 MPa	10900 psi	0.2 in/min; ASTM D638
Tensile Strength, Yield	79.0 MPa	11500 psi	50 mm/min; ISO 527
	79.0 MPa	11500 psi	2 in/min; ASTM D638
	25.0 MPa	3630 psi	ASTM D638
	@Temperature 120 °C	@Temperature 248 °F	
	25.0 MPa	3630 psi	ISO 527
	@Temperature 120 °C	@Temperature 248 °F	
	35.0 MPa	5080 psi	ASTM D638
	@Temperature 80.0 °C	@Temperature 176 °F	
	35.0 MPa	5080 psi	ISO 527
	@Temperature 80.0 °C	@Temperature 176 °F	
	125 MPa	18100 psi	ASTM D638
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	125 MPa	18100 psi	

Mechanical Properties	Metric @ Temperature -40.0 °C	English @ Temperature -40.0 °F	ISO 527 Comments
Elongation at Break	25 %	25 %	50 mm/min; Nominal; ISO 527
	55 %	55 %	2 in/min; ASTM D638
Elongation at Yield	4.0 %	4.0 %	50 mm/min; ISO 527
	4.0 %	4.0 %	2 in/min; ASTM D638
	36 %	36 %	ASTM D638
	@Temperature 120 °C	@Temperature 248 °F	
	42 %	42 %	ASTM D638
	@Temperature 80.0 °C	@Temperature 176 °F	
Modulus of Elasticity	0.360 GPa	52.2 ksi	ISO 527
	@Temperature 120 °C	@Temperature 248 °F	
	0.485 GPa	70.3 ksi	ISO 527
	@Temperature 80.0 °C	@Temperature 176 °F	
Tensile Modulus	3.10 GPa	450 ksi	1 mm/min; ISO 527
Flexural Strength	110 MPa	16000 psi	ASTM D790
	20.0 MPa	2900 psi	ASTM D790
	@Temperature 120 °C	@Temperature 248 °F	
	20.0 MPa	2900 psi	ASTM D790
	@Temperature 93.0 °C	@Temperature 199 °F	
	30.0 MPa	4350 psi	ASTM D790
	@Temperature 65.0 °C	@Temperature 149 °F	
	170 MPa	24700 psi	ASTM D790
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Flexural Modulus	2.83 GPa	410 ksi	ASTM D790
	0.305 GPa	44.2 ksi	ASTM D790
	@Temperature 120 °C	@Temperature 248 °F	
	0.350 GPa	50.8 ksi	ASTM D790
	@Temperature 93.0 °C	@Temperature 199 °F	
	0.500 GPa	72.5 ksi	ASTM D790
	@Temperature 65.0 °C	@Temperature 149 °F	

Mechanical Properties	Metric	English	Comments
	@Temperature -40.0 °C	@Temperature -40.0 °F	ASTM D790
Izod Impact, Notched	0.600 J/cm	1.12 ft-lb/in	ASTM D256
	0.500 J/cm	0.937 ft-lb/in	ASTM D256
	@Temperature -40.0 °C	@Temperature -40.0 °F	

Thermal Properties	Metric	English	Comments
CTE, linear	83.0 µm/m-°C	46.1 µin/in-°F	ASTM E831
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Melting Point	220 °C	428 °F	10 K/min
	220 °C	428 °F	ASTM D3418
Deflection Temperature at 0.46 MPa (66 psi)	178 °C	352 °F	ISO 75
	178 °C	352 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	60.0 °C	140 °F	ISO 75
	65.0 °C	149 °F	ASTM D648

Descriptive Properties	Value	Comments
Additive	Unfilled	
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	

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