

## BASF Capron® 8224 HSL 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-8224-HSL-Nylon-6-DAM-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_BASF-Capron-8224-HSL-Nylon-6-DAM-nbspdiscontinued-.php)

Physical Properties	Metric	English	Comments
Density	1.13 g/cc	0.0408 lb/in <sup>3</sup>	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

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	119	119	ASTM D785
Tensile Strength, Yield	70.0 MPa	10200 psi	2 in/min; ASTM D638
	79.0 MPa	11500 psi	50 mm/min; ISO 527
Elongation at Break	>= 50 %	>= 50 %	50 mm/min; Nominal; ISO 527
	>= 100 %	>= 100 %	2 in/min; ASTM D638
Elongation at Yield	10 %	10 %	50 mm/min; ISO 527
	10 %	10 %	2 in/min; ASTM D638
Tensile Modulus	3.00 GPa	435 ksi	1 mm/min; ISO 527
Flexural Strength	70.0 MPa	10200 psi	ISO 178
	100 MPa	14500 psi	ASTM D790
	8.00 MPa	1160 psi	ASTM D790
	@Temperature 120 °C	@Temperature 248 °F	
Flexural Modulus	179 MPa	26000 psi	ASTM D790
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Flexural Modulus	2.20 GPa	319 ksi	ISO 178
	2.45 GPa	355 ksi	ASTM D790

Mechanical Properties	Metric MPa	English	Comments
	@Temperature 120 °C	@Temperature 248 °F	ASTM D190
Izod Impact, Notched	0.450 J/cm	0.843 ft-lb/in	ASTM D256
	0.370 J/cm	0.693 ft-lb/in	ASTM D256
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Charpy Impact Unnotched	8.50 J/cm <sup>2</sup>	40.5 ft-lb/in <sup>2</sup>	ISO 179
Charpy Impact, Notched	0.410 J/cm <sup>2</sup>	1.95 ft-lb/in <sup>2</sup>	ISO 179

Thermal Properties	Metric	English	Comments
CTE, linear	86.0 µm/m-°C	47.8 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)	167 °C	333 °F	ASTM D648
	178 °C	352 °F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	55.0 °C	131 °F	ASTM D648
	60.0 °C	140 °F	ISO 75
Oxygen Index	23 %	23 %	ISO 4589-1/-2

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+13 ohm-cm	>= 1.00e+13 ohm-cm	IEC 60093

Descriptive Properties	Value	Comments
Additive	Unfilled	
Attribute	Heat stabilized or stable to heat	
Color	Natural	
Commercial Status (March 2007)	Active America	
Form	Pellets	
Impact Modified	No	
Other Extrusion	Processable	

Descriptive Properties Primary Processing Technique	Value Wire and Cable	Comments
Profile extrusion	Processable	
UL.UL-C	Yes	

## Contact Songhan Plastic Technology Co.,Ltd.

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