

BASF Ultramid® 8270 HS PA6 (Dry)

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

Material Notes:

Ultramid 8270 HS is a thermally modified PA6 blow molding compound exhibiting exceptional toughness and melt strength ideally suited for blow molding, profile extrusion, and other applications requiring extra high melt viscosity. It exhibits excellent permeability and chemical resistance to oils, hydrocarbons and most solvents.

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Ultramid-8270-HS-PA6-Dry.php

Physical Properties	Metric	English	Comments
Density	1.13 g/cc	0.0408 lb/in ³	ISO 1183
Water Absorption	1.6 %	1.6 %	24 hour; ISO Test
	9.2 %	9.2 %	ISO 62
Moisture Absorption at Equilibrium	2.6 %	2.6 %	23°C/50% R.H.; ISO 62
Viscosity Measurement	220	220	Formic Acid

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	99	99	ASTM Test
Tensile Strength, Yield	84.0 MPa	12200 psi	50mm/min; ISO 527
	84.0 MPa	12200 psi	2 in/min; ASTM Test
	24.0 MPa	3480 psi	ISO Data
	@Temperature 120 °C	@Temperature 248 °F	
	24.0 MPa	3480 psi	ASTM Test
	@Temperature 120 °C	@Temperature 248 °F	
	138 MPa	20000 psi	ASTM Test
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	138 MPa	20000 psi	ISO Data
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Elongation at Break	>= 100 %	>= 100 %	2 in/min; ASTM Test
Elongation at Yield	4.0 %	4.0 %	50mm/min; ISO 527
	4.0 %	4.0 %	2 in/min; ASTM Test
Flexural Strength	114 MPa	16500 psi	ASTM Test

Mechanical Properties	Metric	English	Comments
	17.0 MPa	2470 psi	ASTM Test
	@Temperature 120 °C	@Temperature 248 °F	
	20.0 MPa	2900 psi	ASTM Test
	@Temperature 93.0 °C	@Temperature 199 °F	
	30.0 MPa	4350 psi	ASTM Test
	@Temperature 65.0 °C	@Temperature 149 °F	
	179 MPa	26000 psi	ASTM Test
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Flexural Modulus	0.310 GPa	45.0 ksi	
	2.90 GPa	421 ksi	ASTM Test
	0.260 GPa	37.7 ksi	ASTM Test
	@Temperature 120 °C	@Temperature 248 °F	
	0.435 GPa	63.1 ksi	ASTM Test
	@Temperature 65.0 °C	@Temperature 149 °F	
Izod Impact, Notched	0.530 J/cm	0.993 ft-lb/in	ASTM Test
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	0.530 J/cm	0.993 ft-lb/in	ASTM Test
	@Thickness 3.17 mm	@Thickness 0.125 in	

Thermal Properties	Metric	English	Comments
CTE, linear	135 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	75.0 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	ASTM Test
	@Temperature -30.0 - 30.0 °C	@Temperature -22.0 - 86.0 °F	
Melting Point	220 °C	428 °F	10 K/min
	220 °C	428 °F	ASTM Test
Deflection Temperature at 0.46 MPa (66 psi)	169 °C	336 °F	ASTM Test
Deflection Temperature at 1.8 MPa (264 psi)	63.0 °C	145 °F	ASTM Test
Flammability, UL94	HB	HB	
	HB	HB	
	@Thickness 0.750 mm	@Thickness 0.0295 in	

Descriptive Properties	Value	Comments
Color	Natural	
Commercial Status	Active America	
Form	Pellets	
Impact Modified	No	
Primary Processing Technique	Blow Molding	
Processing	Blow molding	
	Injection Molding	
Special characteristic	Heat stabilized or stable to heat	
UL.UL-C	Yes	

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