

BASF Ultramid® 8270 HS BK 102 PA6 (Dry)

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

Material Notes:

Description: Ultramid 8270 HS BK-102 is a thermally modified pigmented black, 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. Applications: Industrial containers, small gasoline tanks, and automotive under hood reservoirs. Information provided by BASF

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Ultramid-8270-HS-BK-102-PA6-Dry.php

Physical Properties	Metric	English	Comments
Density	1.13 g/cc	0.0408 lb/in ³	ASTM D792
Moisture Absorption at Equilibrium	1.6 %	1.6 %	24 Hours; ASTM D570
	2.6 %	2.6 %	50% RH; ASTM D570
	9.2 %	9.2 %	Saturation; ASTM D570

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	99	99	ASTM D785
Tensile Strength, Yield	24.0 MPa	3480 psi	ASTM D638
	@Temperature 121 °C	@Temperature 250 °F	
	84.0 MPa	12200 psi	
	@Temperature 23.0 °C	@Temperature 73.4 °F	ASTM D638
	138 MPa	20000 psi	ASTM D638
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Elongation at Break	>= 100 %	>= 100 %	ASTM D638
Elongation at Yield	4.0 %	4.0 %	ASTM D638
Flexural Strength	17.0 MPa	2470 psi	ASTM D790
	@Temperature 121 °C	@Temperature 250 °F	
	20.0 MPa	2900 psi	
	@Temperature 90.0 °C	@Temperature 194 °F	ASTM D790
	30.0 MPa	4350 psi	ASTM D790
	@Temperature 65.0 °C	@Temperature 149 °F	

Mechanical Properties	114 MPa Metric	16500 psi English	Comments
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	179 MPa	26000 psi	ASTM D790
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Flexural Modulus	0.260 GPa	37.7 ksi	ASTM D790
	@Temperature 121 °C	@Temperature 250 °F	
	0.310 GPa	45.0 ksi	ASTM D790
	@Temperature 90.0 °C	@Temperature 194 °F	
	0.435 GPa	63.1 ksi	ASTM D790
	@Temperature 65.0 °C	@Temperature 149 °F	
	2.90 GPa	421 ksi	ASTM D790
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	3.16 GPa	458 ksi	ASTM D790
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Izod Impact, Notched	0.530 J/cm	0.993 ft-lb/in	ASTM D256
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	0.530 J/cm	0.993 ft-lb/in	ASTM D256
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear	135 µm/m-°C	75.0 µin/in-°F	ASTM E831
Melting Point	220 °C	428 °F	ASTM D3418
Deflection Temperature at 0.46 MPa (66 psi)	169 °C	336 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	63.0 °C	145 °F	ASTM D648

Processing Properties	Metric	English	Comments
Melt Temperature	245 - 260 °C	473 - 500 °F	
Mold Temperature	60.0 °C	140 °F	
Dry Time	2 - 4 hour	2 - 4 hour	
Moisture Content	<= 0.15 %	<= 0.15 %	

Descriptive Properties	Value	Comments
Color	BK 102	
Commercial Status	North America	

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