

BASF Ultramid® 8270 HS BK 102 PA6 (Conditioned)

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-Conditioned.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
Tensile Strength, Yield	46.0 MPa	6670 psi	ASTM D638
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	119 MPa	17300 psi	ASTM D638
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Flexural Strength	37.0 MPa	5370 psi	ASTM D790
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	176 MPa	25500 psi	ASTM D790
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Flexural Modulus	0.760 GPa	110 ksi	ASTM D790
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	3.90 GPa	566 ksi	ASTM D790
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Izod Impact, Notched	0.480 J/cm	0.899 ft-lb/in	ASTM D256
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	NB	NB	ASTM D256
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Mechanical Properties	Metric	English	Comments
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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