

BASF Ultramid® 8281 HS GP PA6 (Conditioned)

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

Material Notes:

Description: Ultramid 8281 HS GP is an unreinforced, heat stabilized PA6 rot molding compound. It is available in natural and black and can be painted. It exhibits excellent balance of engineering properties including strength, stiffness, and toughness combined with excellent abrasion resistance and self lubricating characteristics. In addition, the heat stabilizer system extends its retention of properties at elevated temperatures. Chemical resistance is excellent to greases, oils and hydrocarbons. All data is from injection molded specimens with the exception of Drop Weight Impact. **Applications:** Ultramid 8281 HS GP is generally recommended for applications such as fuel tanks, chemical storage tanks, hydraulic oil reservoirs, cyclones, and heat resistance containers. Information provided by BASF

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Ultramid-8281-HS-GP-PA6-Conditioned.php

Physical Properties	Metric	English	Comments
Density	1.13 g/cc	0.0408 lb/in ³	ASTM D792
Moisture Absorption at Equilibrium	1.3 %	1.3 %	24 Hours; ASTM D570
	2.7 %	2.7 %	50% RH; ASTM D570
	9.5 %	9.5 %	Saturation; ASTM D570
Linear Mold Shrinkage	0.0508 cm/cm	0.0508 in/in	1/8" bar

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	33.0 MPa	4790 psi	ASTM D638
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	100 MPa	14500 psi	ASTM D638
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Elongation at Break	>= 100 %	>= 100 %	ASTM D638
Flexural Strength	32.0 MPa	4640 psi	ASTM D790
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	145 MPa	21000 psi	ASTM D790
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Flexural Modulus	0.685 GPa	99.4 ksi	ASTM D790
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	2.26 GPa	328 ksi	ASTM D790
	@Temperature -40.0 °C	@Temperature -40.0 °F	

Processing Properties	Metric	English	Comments
Dry Time	2 - 4 hour	2 - 4 hour	
Moisture Content	<= 0.20 %	<= 0.20 %	

Descriptive Properties	Value	Comments
Commercial Status	North America	

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