

BASF Ultramid® 8253 HS PA6 (Conditioned)

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , Impact Grade

Material Notes:

Ultramid 8253 HS is a heat stabilized, impact modified type 6 graft copolymer developed for both injection molding and extrusion applications requiring improved dry as molded toughness and increased flexibility. It is also available in non-heat stabilized (Ultramid 8253) and/or pigmented versions.

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Ultramid-8253-HS-PA6-Conditioned.php

Physical Properties	Metric	English	Comments
Water Absorption	1.5 %	1.5 %	24 hour; ISO Test
Linear Mold Shrinkage	0.012 cm/cm	0.012 in/in	ASTM Data; MD

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	70.0 MPa	10200 psi	ISO Data
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	70.0 MPa	10200 psi	ASTM Test
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Tensile Strength, Yield	32.0 MPa	4640 psi	2 in/min; ASTM Test
	20.0 MPa	2900 psi	ASTM Test
	@Temperature 80.0 °C	@Temperature 176 °F	
	20.0 MPa	2900 psi	ISO Data
	@Temperature 80.0 °C	@Temperature 176 °F	
	116 MPa	16800 psi	ASTM Test
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	116 MPa	16800 psi	ISO Data
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Elongation at Break	>= 100 %	>= 100 %	2 in/min; ASTM Test
	20 %	20 %	ASTM Test
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	20 %	20 %	ISO Data
	@Temperature -40.0 °C	@Temperature -40.0 °F	

Elongation at Yield Mechanical Properties	15 % Metric	15 % English	2 in/min: ASTM Test Comments
	30 %	30 %	ASTM Test
	@Temperature 120 °C	@Temperature 248 °F	
	30 %	30 %	ISO Data
	@Temperature 80.0 °C	@Temperature 176 °F	
Tensile Modulus	0.220 GPa	31.9 ksi	ISO Data
	@Temperature 120 °C	@Temperature 248 °F	
	0.370 GPa	53.7 ksi	ISO Data
	@Temperature 80.0 °C	@Temperature 176 °F	
	3.30 GPa	479 ksi	ISO Data
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Flexural Strength	32.0 MPa	4640 psi	ASTM Test
	141 MPa	20500 psi	ASTM Test
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Flexural Modulus	0.670 GPa	97.2 ksi	ASTM Test
Izod Impact, Notched	0.640 J/cm	1.20 ft-lb/in	ASTM Test
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	NB	NB	ASTM Test
	@Thickness 3.17 mm	@Thickness 0.125 in	

Thermal Properties	Metric	English	Comments
Melting Point	220 °C	428 °F	ASTM Test

Descriptive Properties	Value	Comments
Color	Natural	
Commercial Status	Active America	
Impact Modified	Yes	
Primary Processing Technique	Injection Molding	
UL-UL-C	Yes	

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