

BASF Ultramid® 8253 HS PA6 (Dry)

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-Dry.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
Hardness, Rockwell R	82	82	ASTM Test
Tensile Strength at Break	60.0 MPa	8700 psi	0.2 in/min; ASTM Test
	100 MPa	14500 psi	ASTM Test
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	100 MPa	14500 psi	ISO Data
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Tensile Strength, Yield	65.0 MPa	9430 psi	2 in/min; ASTM Test
	20.0 MPa	2900 psi	ASTM Test
	@Temperature 120 °C	@Temperature 248 °F	
	20.0 MPa	2900 psi	ISO Data
	@Temperature 120 °C	@Temperature 248 °F	
	25.0 MPa	3630 psi	ISO Data
	@Temperature 80.0 °C	@Temperature 176 °F	
	25.0 MPa	3630 psi	ASTM Test
	@Temperature 80.0 °C	@Temperature 176 °F	
	117 MPa	17000 psi	ASTM Test
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	117 MPa	17000 psi	ISO Data

Mechanical Properties	@Temperature -40.0 °C Metric	@Temperature -40.0 °F English	Comments
Elongation at Break	>= 100 %	>= 100 %	2 in/min; ASTM Test
	9.0 %	9.0 %	ASTM Test
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	9.0 %	9.0 %	ISO Data
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Elongation at Yield	4.0 %	4.0 %	2 in/min; ASTM Test
	7.0 %	7.0 %	ASTM Test
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	7.0 %	7.0 %	ISO Data
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	29 %	29 %	ISO Data
	@Temperature 80.0 °C	@Temperature 176 °F	
	29 %	29 %	ASTM Test
	@Temperature 80.0 °C	@Temperature 176 °F	
	34 %	34 %	ASTM Test
	@Temperature 120 °C	@Temperature 248 °F	
	34 %	34 %	ISO Data
	@Temperature 120 °C	@Temperature 248 °F	
Tensile Modulus	0.295 GPa	42.8 ksi	ISO Data
	@Temperature 120 °C	@Temperature 248 °F	
	0.400 GPa	58.0 ksi	ISO Data
	@Temperature 80.0 °C	@Temperature 176 °F	
	2.835 GPa	411.2 ksi	ISO Data
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Flexural Strength	65.0 MPa	9430 psi	ISO Data
	87.0 MPa	12600 psi	ASTM Test
	14.0 MPa	2030 psi	ASTM Test
	@Temperature 120 °C	@Temperature 248 °F	
	20.0 MPa	2900 psi	ASTM Test
	@Temperature 93.0 °C	@Temperature 199 °F	

Mechanical Properties	Metric	English	Comments
	25.0 MPa	3600 psi	ASTM Test
	@Temperature 65.0 °C	@Temperature 149 °F	
	148 MPa	21500 psi	ASTM Test
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Flexural Modulus	1.90 GPa	276 ksi	ISO Data
	2.21 GPa	321 ksi	ASTM Test
	0.260 GPa	37.7 ksi	ASTM Test
	@Temperature 120 °C	@Temperature 248 °F	
	0.325 GPa	47.1 ksi	ASTM Test
	@Temperature 93.0 °C	@Temperature 199 °F	
	0.415 GPa	60.2 ksi	ASTM Test
	@Temperature 65.0 °C	@Temperature 149 °F	
Izod Impact, Notched	0.800 J/cm	1.50 ft-lb/in	ASTM Test
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	1.48 J/cm	2.77 ft-lb/in	ASTM Test
	@Thickness 3.17 mm	@Thickness 0.125 in	

Thermal Properties	Metric	English	Comments
CTE, linear	99.0 $\mu\text{m}/\text{m}\cdot\text{°C}$	55.0 $\mu\text{in}/\text{in}\cdot\text{°F}$	ASTM Test
	@Temperature -30.0 - 30.0 °C	@Temperature -22.0 - 86.0 °F	
Melting Point	220 °C	428 °F	ASTM Test
Deflection Temperature at 0.46 MPa (66 psi)	168 °C	334 °F	ASTM Test
Deflection Temperature at 1.8 MPa (264 psi)	60.0 °C	140 °F	ASTM Test

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

Descriptive Properties	Value	Comments
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