

BASF Ultramid® 8253 HS BK-102 PA6 (Dry)

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

Material Notes:

Ultramid 8253 HS BK-102 is a heat stabilized, pigmented black, impact modified type 6 nylon graft copolymer developed for both injection molding and extrusion applications. It exhibits varying levels of toughness and flexibility combined with excellent thermal and chemical properties.

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Ultramid-8253-HS-BK-102-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, Yield	65.0 MPa	9430 psi	2 in/min; ASTM Test
Elongation at Break	>= 100 %	>= 100 %	2 in/min; ASTM Test
Elongation at Yield	4.0 %	4.0 %	2 in/min; ASTM Test
Flexural Strength	65.0 MPa	9430 psi	ISO Data
	85.0 MPa	12300 psi	ASTM Test
Flexural Modulus	1.90 GPa	276 ksi	ISO Data
	2.27 GPa	329 ksi	ASTM Test
Izod Impact, Notched	1.50 J/cm	2.81 ft-lb/in	ASTM Test
	@Thickness 3.17 mm	@Thickness 0.125 in	
Izod Impact, Notched (ISO)	14.0 kJ/m ²	6.66 ft-lb/in ²	ISO Test

Thermal Properties	Metric	English	Comments
CTE, linear	99.0 µm/m-°C	55.0 µin/in-°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 1.8 MPa (264 psi)	60.0 °C	140 °F	ASTM Test

Descriptive Properties	Value	Comments
Color	BK-102	
Commercial Status	Active America	
Impact Modified	Yes	
Primary Processing Technique	Injection Molding	
UL.UL-C	Yes	

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