

BASF Ultramid® 8254 HS BK-102 PA6 (Conditioned)

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

Material Notes:

Ultramid 8254 HS is a highly flexible, heat stabilized, impact modified nylon 6 extrusion grade for tubing applications.

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Ultramid-8254-HS-BK-102-PA6-Conditioned.php

Physical Properties	Metric	English	Comments
Density	1.07 g/cc	0.0387 lb/in ³	dry; ISO 1183
Water Absorption	1.2 %	1.2 %	24 hour; ISO Test
	7.1 %	7.1 %	beginning dry; ISO 62
Moisture Absorption at Equilibrium	2.0 %	2.0 %	beginning dry (23°C/50% R.H.); ISO 62
Linear Mold Shrinkage	0.013 cm/cm	0.013 in/in	ASTM Data; MD

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	26.0 MPa	3770 psi	50mm/min; ISO 527
	26.0 MPa	3770 psi	2 in/min; ASTM Test
	104 MPa	15100 psi	ISO Data
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	104 MPa	15100 psi	ASTM Test
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Elongation at Break	>= 50 %	>= 50 %	50mm/min, Nominal strain; ISO 527
Elongation at Yield	30 %	30 %	50mm/min; ISO 527
Tensile Modulus	0.460 GPa	66.7 ksi	1mm/min; ISO 527
	0.145 GPa	21.0 ksi	ISO Data
	@Temperature 120 °C	@Temperature 248 °F	
	0.230 GPa	33.4 ksi	ISO Data
	@Temperature 80.0 °C	@Temperature 176 °F	
	3.00 GPa	435 ksi	ISO Data
	@Temperature -40.0 °C	@Temperature -40.0 °F	

Thermal Properties	Metric	English	Comments
Melting Point	220 °C	428 °F	10 K/min
	220 °C	428 °F	ASTM Test

Processing Properties	Metric	English	Comments
Melt Temperature	280 °C	536 °F	Injection molding
Mold Temperature	70.0 °C	158 °F	Injection molding

Descriptive Properties	Value	Comments
Color	BK-102	
Commercial Status	Active America	
Form	Pellets	
Impact Modified	Yes	
Primary Processing Technique	Extrusion	
Processing	Injection Molding	
	Other Extrusion	
	Profile Extrusion	
Special characteristic	Heat stabilized or stable to heat	
UL-UL-C	Yes	

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