

BASF Ultramid® 8281 HS PA6 (Dry)

Category : Polymer , Thermoplastic , Nylon , Nylon 6

Material Notes:

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Density	1.13 g/cc	0.0408 lb/in ³	ISO 1183
Water Absorption	9.5 %	9.5 %	ISO 62
Moisture Absorption at Equilibrium	2.7 %	2.7 %	23°C/50% R.H.; ISO 62
Viscosity Measurement	60	60	Formic Acid

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	48.0 MPa	6960 psi	50mm/min; ISO 527
	48.0 MPa	6960 psi	2 in/min; ASTM Test
Elongation at Break	>= 50 %	>= 50 %	50mm/min, Nominal strain; ISO 527
	60 %	60 %	2 in/min; ASTM Test
Flexural Strength	45.0 MPa	6530 psi	ASTM Test
	15.0 MPa	2180 psi	ASTM Test
	@Temperature 120 °C	@Temperature 248 °F	
	15.0 MPa	2180 psi	ASTM Test
	@Temperature 93.0 °C	@Temperature 199 °F	
	20.0 MPa	2900 psi	ASTM Test
	@Temperature 65.0 °C	@Temperature 149 °F	
	175 MPa	25400 psi	ASTM Test
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Flexural Modulus	1.04 GPa	151 ksi	ASTM Test
	0.225 GPa	32.6 ksi	ASTM Test
	@Temperature 120 °C	@Temperature 248 °F	
	0.240 GPa	34.8 ksi	ASTM Test
	@Temperature 93.0 °C	@Temperature 199 °F	

Mechanical Properties	0.320 GPa Metric	46.4 ksi English	Comments
	@Temperature 65.0 °C	@Temperature 149 °F	
Izod Impact, Notched	0.800 J/cm	1.50 ft-lb/in	ASTM Test
	@Thickness 3.17 mm	@Thickness 0.125 in	

Thermal Properties	Metric	English	Comments
Melting Point	220 °C	428 °F	10 K/min
	220 °C	428 °F	ASTM Test
Deflection Temperature at 1.8 MPa (264 psi)	57.0 °C	135 °F	ASTM Test
Flammability, UL94	HB	HB	
	@Thickness 1.50 mm	@Thickness 0.0591 in	

Descriptive Properties	Value	Comments
Color	Natural	
Commercial Status	Active America	
Form	Pellets	
Impact Modified	No	
Primary Processing Technique	Rotomolding	
Processing	Injection Molding	
Special characteristic	Heat stabilized or stable to heat	
UL.UL-C	Yes	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China