

## BASF Ultramid® 8253 PA6 (Conditioned)

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

### Material Notes:

Ultramid 8253 is an unfilled, impact modified type 6 graft copolymer developed for both injection molding and extrusion applications. It is also available in heat stabilized (Ultramid 8253 HS) and/or pigmented versions. Copolymerization results in improved dry as molded toughness and increased flexibility to meet higher impact performance compared to conventional unreinforced homopolymers. Good nylon thermal and chemical properties are maintained along with good strength and stiffness retention.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_BASF-Ultramid-8253-PA6-Conditioned.php](http://www.lookpolymers.com/polymer_BASF-Ultramid-8253-PA6-Conditioned.php)

Physical Properties	Metric	English	Comments
Density	1.09 g/cc	0.0394 lb/in <sup>3</sup>	dry; ISO 1183
Water Absorption	1.5 %	1.5 %	24 hour; ISO Test
	8.1 %	8.1 %	beginning dry; ISO 62
Moisture Absorption at Equilibrium	2.3 %	2.3 %	beginning dry (23°C/50% R.H.); ISO 62
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	
Tensile Strength, Yield	70.0 MPa	10200 psi	ASTM Test
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Tensile Strength, Yield	32.0 MPa	4640 psi	50mm/min; ISO 527
	32.0 MPa	4640 psi	
Tensile Strength, Yield	20.0 MPa	2900 psi	ASTM Test
	@Temperature 80.0 °C	@Temperature 176 °F	
Tensile Strength, Yield	20.0 MPa	2900 psi	ISO Data
	@Temperature 80.0 °C	@Temperature 176 °F	
Tensile Strength, Yield	116 MPa	16800 psi	ASTM Test
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Tensile Strength, Yield	116 MPa	16800 psi	ISO Data
	@Temperature -40.0 °C	@Temperature -40.0 °F	

<b>Elongation at Break</b> Mechanical Properties	<b>≥ 50 %</b> Metric	<b>≥ 50 %</b> English	<b>50mm/min</b> Nominal strain; ISO 527 Comments
	≥ 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	15 %	15 %	2 in/min; ASTM Test
	15 %	15 %	50mm/min; ISO 527
	30 %	30 %	ISO Data
	@Temperature 80.0 °C	@Temperature 176 °F	
	30 %	30 %	ASTM Test
	@Temperature 120 °C	@Temperature 248 °F	
Tensile Modulus	0.730 GPa	106 ksi	1mm/min; ISO 527
	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	

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

Thermal Properties	220 °C Metric	428 °F English	Comments
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	Natural	
Commercial Status	Active America	
Form	Pellets	
Impact Modified	Yes	
Primary Processing Technique	Injection Molding	
Processing	Injection Molding	
UL.UL-C	Yes	

## Contact Songhan Plastic Technology Co.,Ltd.

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