

## BASF Ultramid® C33 01 PA66/6 (Dry)

Category : Polymer , Thermoplastic , Nylon , Nylon 6/66 , Nylon 66/6 , Unreinforced

### Material Notes:

Ultramid C33 01 is an intermediate viscosity PA6/66 grade. Its lower melting point than standard PA6 is advantageous for coextrusion with temperature sensitive polymers like EVOH. It conforms to FDA requirements including, 21 CFR 177.1500,EU Directive 2002/72/EC, the German BfR recommendation "X Polyamide", 1.6.1998 or legislations for other countries will be provided on request.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_BASF-Ultramid-C33-01-PA666-Dry.php](http://www.lookpolymers.com/polymer_BASF-Ultramid-C33-01-PA666-Dry.php)

Physical Properties	Metric	English	Comments
Density	1.12 g/cc	0.0405 lb/in <sup>3</sup>	ISO 1183
Water Absorption	10.5 %	10.5 %	ISO 62
Moisture Absorption at Equilibrium	3.2 %	3.2 %	23°C/50% R.H.; ISO 62
Relative Viscosity	3.3 cP	3.3 cP	ISO Test; 96 % SAV
Viscosity Test	195 cm <sup>3</sup> /g	195 cm <sup>3</sup> /g	Viscosity number
Linear Mold Shrinkage	0.010 cm/cm	0.010 in/in	ASTM Data; MD

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	80.0 MPa	11600 psi	0.2 in/min; ASTM Test
Tensile Strength, Yield	80.0 MPa	11600 psi	50mm/min; ISO 527
Elongation at Break	>= 50 %	>= 50 %	50mm/min, Nominal strain; ISO 527
Elongation at Yield	5.0 %	5.0 %	50mm/min; ISO 527
Tensile Modulus	2.20 GPa	319 ksi	1mm/min; ISO 527
	2.40 GPa	348 ksi	ASTM Test
Charpy Impact Unnotched	NB	NB	ISO 179
	NB	NB	ISO 179
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	NB	NB	ISO 179
	NB	NB	ISO 179
	@Temperature -30.0 °C	@Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
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Thermal Properties	Metric	English	Comments
	196 °C	385 °F	ASTM Test
Deflection Temperature at 0.46 MPa (66 psi)	140 °C	284 °F	ASTM Test
	140 °C	284 °F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	57.0 °C	135 °F	ASTM Test
	57.0 °C	135 °F	ISO 75

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+13 ohm-cm	1.00e+13 ohm-cm	IEC 60093
Surface Resistance	1.00e+12 ohm	1.00e+12 ohm	IEC 60093
Dielectric Constant	3.7	3.7	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
	3.7	3.7	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dissipation Factor	0.030	0.030	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	0.030	0.030	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Comparative Tracking Index	600 V	600 V	IEC 60112

Descriptive Properties	Value	Comments
Color	Natural	
Commercial Status	North America and Europe	
FDA	21 CFR 177.1500 (restrictions per 21 CFR .1395)	
Form	Pellets	
Impact Modified	No	
Primary Processing Technique	Film Extrusion	
Processing	Other Extrusion	

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