

BASF Ultramid® A34 01 PA66 (Dry)

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Unreinforced, Flame Retardant

Material Notes:

Ultramid A34 01 is an intermediate viscosity, PA66 grade. 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-A34-01-PA66-Dry.php

Physical Properties	Metric	English	Comments
Density	1.13 g/cc	0.0408 lb/in ³	ISO 1183
Water Absorption	8.5 %	8.5 %	ISO 62
Moisture Absorption at Equilibrium	2.2 %	2.2 %	23°C/50% R.H.; ISO 62
Relative Viscosity	3.5 cP	3.5 cP	ISO Test; 96 % SAV
Viscosity Test	205 cm ³ /g	205 cm ³ /g	Viscosity number
Linear Mold Shrinkage	0.014 cm/cm	0.014 in/in	ASTM Data; MD
Melt Flow	40 g/10 min @Load 5.00 kg, Temperature 275 °C	40 g/10 min @Load 11.0 lb, Temperature 527 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	80.0 MPa	11600 psi	50mm/min; ISO 527
	80.0 MPa	11600 psi	2 in/min; ASTM Test
Elongation at Break	25 %	25 %	50mm/min, Nominal strain; ISO 527
	50 %	50 %	2 in/min; ASTM Test
Elongation at Yield	4.2 %	4.2 %	50mm/min; ISO 527
Tensile Modulus	3.20 GPa	464 ksi	1mm/min; ISO 527
	3.20 GPa	464 ksi	ASTM Test
Flexural Modulus	2.76 GPa	400 ksi	ASTM Test
Izod Impact, Notched	0.530 J/cm @Temperature -40.0 °C	0.993 ft-lb/in @Temperature -40.0 °F	ASTM Test
	0.640 J/cm @Thickness 3.17 mm	1.20 ft-lb/in @Thickness 0.125 in	ASTM Test

Mechanical Properties	Metric	English	Comments
	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
CTE, linear	40.0 $\mu\text{m}/\text{m}\cdot\text{°C}$	22.2 $\mu\text{in}/\text{in}\cdot\text{°F}$	ASTM Test
	@Temperature -30.0 - 30.0 °C	@Temperature -22.0 - 86.0 °F	
CTE, linear, Parallel to Flow	85.0 $\mu\text{m}/\text{m}\cdot\text{°C}$	47.2 $\mu\text{in}/\text{in}\cdot\text{°F}$	ISO 11359
Melting Point	255 °C	491 °F	10 K/min
	260 °C	500 °F	ASTM Test
Deflection Temperature at 0.46 MPa (66 psi)	199 °C	390 °F	ASTM Test
	220 °C	428 °F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	75.0 °C	167 °F	ISO 75
	100 °C	212 °F	ASTM Test
Vicat Softening Point	250 °C	482 °F	(50 °C/h / 50N) - B/50; ISO 306
Flammability, UL94	V-2	V-2	
	@Thickness 1.57 mm	@Thickness 0.0618 in	
	V-2	V-2	
	@Thickness 0.890 mm	@Thickness 0.0350 in	
Oxygen Index	28 %	28 %	ISO 4589-1/-2

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+13 ohm-cm	1.00e+13 ohm-cm	IEC 60093
Surface Resistance	1.00e+13 ohm	1.00e+13 ohm	IEC 60093
Dielectric Constant	3.2	3.2	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	

Electrical Properties	Metric	English	Comments
	@Frequency 100 Hz	@Frequency 100 Hz	IEC 60250
Dissipation Factor	0.0050	0.0050	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
	0.026	0.026	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 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	
Form	Pellets	
Impact Modified	No	
Primary Processing Technique	Film Extrusion	
Processing	Injection Molding	
	Other Extrusion	

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