

## BASF Ultramid® Seal-Fit PA6/66 (Conditioned)

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

### Material Notes:

Description: Transparent, tough, amorphous copolyamide for injection molding, specially developed for tight overmoulding of metal inlays. Information provided by BASF

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_BASF-Ultramid-Seal-Fit-PA666-Conditioned.php](http://www.lookpolymers.com/polymer_BASF-Ultramid-Seal-Fit-PA666-Conditioned.php)

Physical Properties	Metric	English	Comments
Bulk Density	0.500 - 0.800 g/cc	0.0181 - 0.0289 lb/in <sup>3</sup>	
Density	1.10 g/cc	0.0397 lb/in <sup>3</sup>	ISO 1183
Moisture Absorption at Equilibrium	4.5 - 5.0 %	4.5 - 5.0 %	ISO 62
Viscosity Measurement	125	125	ISO 307
Linear Mold Shrinkage, Flow	0.0030 cm/cm	0.0030 in/in	ISO 2577
Linear Mold Shrinkage, Transverse	0.0020 cm/cm	0.0020 in/in	ISO 2577
Melt Flow	82.5 g/10 min	82.5 g/10 min	ISO 1133
	@Load 10.0 kg, Temperature 230 °C	@Load 22.0 lb, Temperature 446 °F	
	132 g/10 min	132 g/10 min	ISO 1133
	@Load 5.00 kg, Temperature 275 °C	@Load 11.0 lb, Temperature 527 °F	

Thermal Properties	Metric	English	Comments
Vicat Softening Point	68.0 °C	154 °F	ISO 306
	@Load 5.10 kg	@Load 11.2 lb	
Decomposition Temperature	>= 300 °C	>= 572 °F	
Flammability, UL94	HB	HB	
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	V-2	V-2	
	@Thickness 3.20 mm	@Thickness 0.126 in	

Optical Properties	Metric	English	Comments
Transmission, Visible	90 %	90 %	transparent; thickness not quantified

Electrical Properties	Metric	English	Comments
Volume Resistivity	9.00e+12 ohm-cm	9.00e+12 ohm-cm	IEC 60093
Surface Resistance	>= 1.00e+15 ohm	>= 1.00e+15 ohm	IEC 60093
Comparative Tracking Index	600 V	600 V	Test Solution A; IEC 60112

Processing Properties	Metric	English	Comments
Processing Temperature	30.0 °C	86.0 °F	Hopper Throat
Zone 1	200 °C	392 °F	Feed Zone
Zone 2	240 °C	464 °F	Compression
Zone 3	240 °C	464 °F	Metering-zone
Zone 4	240 °C	464 °F	Nozzle
Melt Temperature	240 °C	464 °F	Optimal
	230 - 260 °C	446 - 500 °F	Injection-molding/Extrusion
Mold Temperature	20.0 - 50.0 °C	68.0 - 122 °F	Injection-molding
	40.0 °C	104 °F	Optimal
Drying Temperature	60.0 °C	140 °F	
Dry Time	8 hour	8 hour	

Descriptive Properties	Value	Comments
Commercial Status	Europe	
Ignition Temperature	>400°C	ASTM D1929
Peripheral screw speed	< 0.3 m/s	

## Contact Songhan Plastic Technology Co.,Ltd.

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