

# Ultramid® C 33 01

## Polyamide 66/6 Copolymer

### BASF Corporation

#### Product Description

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.

#### General

Material Status	• Commercial: Active		
Availability	• Europe	• North America	
Features	• Medium Viscosity		
Uses	• Film	• Monofilaments	• Multilayer Film
Agency Ratings	• FDA 21 CFR 177.1500		
RoHS Compliance	• RoHS Compliant		
Appearance	• Natural Color		
Forms	• Pellets		
Processing Method	• Extrusion	• Film Extrusion	

Physical	Nominal Value	Unit	Test Method
Density	1.12	g/cm <sup>3</sup>	ISO 1183
Apparent Density	0.70	g/cm <sup>3</sup>	ISO 60
Water Absorption			ISO 62 <sup>2</sup>
Saturation	11	%	
Equilibrium	3.2	%	
Viscosity Number (96% H <sub>2</sub> SO <sub>4</sub> )	195	cm <sup>3</sup> /g	ISO 307

Mechanical	Nominal Value	Unit	Test Method
Tensile modulus	2200	MPa	ISO 527-2 <sup>2</sup>
Tensile Stress (Yield)	80.0	MPa	ISO 527-2 <sup>2</sup>
Tensile Strain (Yield)	5.0	%	ISO 527-2 <sup>2</sup>

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa)	57.0	°C	ISO 75-2 <sup>2</sup>
Melting Temperature (DSC)	196	°C	ISO 3146

Additional Information	Nominal Value	Unit	Test Method
Moisture Content	< 0.080	%	ISO 15512
Pellet Shape	cylindrical		
Pellet Size	2.00 to 2.50 mm		
Relative Viscosity (1% in 96% Sulfuric Acid)	3.30		ISO 307

Extrusion	Nominal Value	Unit
Drying Temperature	80.0	°C
Drying Time	2.0 to 4.0	hr
Suggested Max Moisture	0.080	%
Cylinder Zone 1 Temp.	225 to 250	°C
Cylinder Zone 2 Temp.	225 to 250	°C
Cylinder Zone 3 Temp.	225 to 250	°C
Cylinder Zone 4 Temp.	225 to 250	°C
Cylinder Zone 5 Temp.	225 to 250	°C
Adapter Temperature	250	°C
Melt Temperature	248	°C
Die Temperature	240	°C

#### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.

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