

Ultramid® B 50L 01

Polyamide 6

BASF Corporation

Product Description

Ultramid B50L 01 is a high-viscosity, lubricated, general-purpose extrusion PA6 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.

General

Material Status	• Commercial: Active		
Availability	• Europe	• North America	
Features	• High Viscosity	• Lubricated	• Oil Resistant
Uses	• Blow Molding Applications	• Profiles	• Tubing
	• Film	• Sheet	
Agency Ratings	• BgVV Recommendation X	• EU 2002/72/EC	• FDA 21 CFR 177.1500
RoHS Compliance	• RoHS Compliant		
Appearance	• Natural Color		
Forms	• Pellets		
Processing Method	• Film Extrusion	• Profile Extrusion	
Multi-Point Data	• Viscosity vs. Shear Rate (ISO 11403-2)		

Physical	Nominal Value	Unit	Test Method
Density	1.13	g/cm ³	ISO 1183 ASTM D1505
Apparent Density	0.70	g/cm ³	ISO 60
Water Absorption			
Saturation	9.5	%	ASTM D570 ISO 62 ²
Equilibrium, 50% RH	2.6	%	ASTM D570
Equilibrium	2.6	%	ISO 62 ²
Viscosity Number (96% H ₂ SO ₄)	320	cm ³ /g	ISO 307

Mechanical	Nominal Value	Unit	Test Method
Tensile modulus	3000	MPa	ISO 527-2 ²
Tensile Stress (Yield)	90.0	MPa	ISO 527-2 ²
Tensile Strain (Yield)	4.5	%	ISO 527-2 ²

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa)	65.0	°C	ISO 75-2 ²
Melting Temperature	220	°C	ASTM D3418 ISO 3146

Additional Information	Nominal Value	Unit	Test Method
Moisture Content	< 0.060	%	ISO 15512
Pellet Shape	cylindrical		
Pellet Size	2.00 to 2.50 mm		
Relative Viscosity (1% in 96% Sulfuric Acid)	5.00		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.	230 to 260	°C
Cylinder Zone 2 Temp.	230 to 260	°C
Cylinder Zone 3 Temp.	230 to 260	°C
Cylinder Zone 4 Temp.	230 to 260	°C
Cylinder Zone 5 Temp.	230 to 260	°C
Adapter Temperature	260 to 266	°C
Melt Temperature	260 to 270	°C
Die Temperature	260	°C

Dongguan Yi-Ming Plastic Chemical Co., Ltd.

如需要更多物性资料请查阅 www.kedisujiao.com

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Friday, December 18, 2009

Notes

¹ Typical properties: these are not to be construed as specifications.

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

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