

# Ultramid® B50L 01

Polyamide 6

BASF Corporation

## Message:

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.

### Applications

Typical applications include semi-finished products, tubes, profiles, blown film, sheets and for blow molding.

General Information			
UL YellowCard	E41871-233711		
Additive	Lubricant		
Features	Food Contact Acceptable		
	General Purpose		
	High Viscosity		
	Lubricated		
	Oil Resistant		
Uses	Blow Molding Applications		
	Film		
	General Purpose		
	Profiles		
	Sheet		
	Tubing		
Agency Ratings	BgVV Recommendation X		
	EC 1907/2006 (REACH)		
	EU 2002/72/EC		
	FDA 21 CFR 177.1500		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Processing Method	Extrusion		
	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 <sup>3</sup>	ISO 1183, ASTM D1505
Apparent Density	0.70	g/cm <sup>3</sup>	
Water Absorption			

Saturation	9.5	%	ASTM D570
Saturation, 23°C	9.5	%	ISO 62
Equilibrium, 50% RH	2.6	%	ASTM D570
Equilibrium, 23°C, 50% RH	2.6	%	ISO 62
Viscosity Number (96% H2SO4 (Sulphuric Acid))	320	cm <sup>3</sup> /g	ISO 307
Moisture Content	< 0.060	%	ISO 15512
Relative Viscosity - 1% in 96% Sulfuric Acid	5.00		ISO 307
Pellet Shape	cylindrical		
Pellet Size	2.00 to 2.50	mm	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	3000	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	90.0	MPa	ISO 527-2
Tensile Strain (Yield, 23°C)	4.5	%	ISO 527-2
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	65.0	°C	ISO 75-2/A
Peak Melting Temperature	220	°C	ASTM D3418, ISO 3146

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