

Ultramid® B3S HP

Polyamide 6

BASF Corporation

Message:

Ultramid B3S HP is a easy flowing, finely crystalline, injection molding PA6 for fast processing.

Applications

Typical applications include thiwallled technical parts (eg housing, fittings, grips, small parts, anchors and fixing clamps)

General Information				
Features		Crystalline		
		Fast Molding Cycle		
		Good Flow		
		Oil Resistant		
Uses		Fittings		
		Housings		
		Thin-walled Parts		
Agency Ratings		EC 1907/2006 (REACH)		
RoHS Compliance		RoHS Compliant		
Forms		Pellets		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.13	--	g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (275°C/5.0 kg)	175	--	cm³/10min	ISO 1133
Water Absorption				ISO 62
Saturation, 23°C	9.5	--	%	
Equilibrium, 23°C, 50% RH	3.0	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness	160	--	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	3400	1200	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	90.0	45.0	MPa	ISO 527-2
Tensile Strain (Yield, 23°C)	4.0	20	%	ISO 527-2
Nominal Tensile Strain at Break (23°C)	10	> 50	%	ISO 527-2
Flexural Modulus (23°C)	3000	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179

-30°C	3.0	--	kJ/m ²	
23°C	4.0	50	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179
-30°C	200	--	kJ/m ²	
23°C	250 kJ/m ²	No Break		
Notched Izod Impact Strength				ISO 180
-30°C	3.0	--	kJ/m ²	
23°C	4.0 kJ/m ²	No Break		
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	65.0	--	°C	ISO 75-2/A
Melting Temperature (DSC)	220	--	°C	ISO 3146
Electrical	Dry	Conditioned	Unit	Test Method
Volume Resistivity	1.0E+15	1.0E+12	ohms·cm	IEC 60093
Dielectric Constant (1 MHz)	3.30	7.00		IEC 60250
Dissipation Factor (1 MHz)	0.030	0.30		IEC 60250
Comparative Tracking Index	600	--	V	IEC 60112

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

