

Ultramid[®] B3UM4

Polyamide 6

BASF Corporation

Message:

Mineral reinforced, halogen- and phosphorus free flame retardant injection moulding grade.

General Information				
Filler / Reinforcement		Mineral,20% Filler by Weight		
Additive		Flame Retardant		
Features		Flame Retardant		
		Low (to None) Phosphorus Content		
		Low Halogen Content		
		Oil Resistant		
Agency Ratings		EC 1907/2006 (REACH)		
RoHS Compliance		RoHS Compliant		
Forms		Pellets		
Processing Method		Injection Molding		
Resin ID (ISO 1043)		PA6-M20 FR		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.35	--	g/cm ³	ISO 1183
Apparent Density	0.70	--	g/cm ³	
Melt Volume-Flow Rate (MVR) (275°C/5.0 kg)	90.0	--	cm ³ /10min	ISO 1133
Water Absorption (Equilibrium, 23°C, 50% RH)	2.0 to 2.4	--	%	ISO 62
Mold Shrinkage - Test box (1.50 mm)	0.60	--	%	
Fire Performance - UL94+HAI+HWI ¹	> 3.00	--	mm	UL 746C
Hot Wire Test (3.0 µm)	1.00	--		ASTM D3874
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	5300	1800	MPa	ISO 527-2
Tensile Stress (Yield)	70.0	30.0	MPa	ISO 527-2
Tensile Strain (Break)	3.0	50	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Unnotched Impact Strength	40	200	kJ/m ²	ISO 179/1eU
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	110	--	°C	ISO 75-2/A

Melting Temperature (DSC)	220	--	°C	ISO 3146
Electrical	Dry	Conditioned	Unit	Test Method
Comparative Tracking Index (Solution A)	600	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (> 0.750 mm)	V-2	--		UL 94
Glow Wire Flammability Index (1.50 mm)	960	--	°C	IEC 60695-2-12
Oxygen Index	32	--	%	ISO 4589-2
NOTE				

- For Electrical Insulation/Barrier with close proximity (< 0,8 mm) to uninsulated live parts according to UL 746C

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

