

Ultramid® B3GM35 Q611

Polyamide 6

BASF Corporation

Message:

Ultramid B3GM35 Q611 is a 40% combined glass-fiber and mineral reinforced injection molding PA6 grade.

Applications

Typical applications include industrial articles requiring medium rigidity and high dimensional stability.

General Information				
Filler / Reinforcement		Glass\Mineral,40% Filler by Weight		
Features		Good Dimensional Stability		
		Medium Rigidity		
		Oil Resistant		
Uses		Industrial Applications		
Agency Ratings		EC 1907/2006 (REACH)		
RoHS Compliance		RoHS Compliant		
Forms		Pellets		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.48	--	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (275°C/5.0 kg)	25.0	--	cm ³ /10min	ISO 1133
Water Absorption				ISO 62
Saturation, 23°C	5.7	--	%	
Equilibrium, 23°C, 50% RH	1.7	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	8000	5000	MPa	ISO 527-2
Tensile Stress (Break, 23°C)	120	65.0	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	3.0	12	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179
-30°C	6.0	--	kJ/m ²	
23°C	8.0	--	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179
-30°C	50	--	kJ/m ²	
23°C	50	--	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method

Heat Deflection Temperature				
0.45 MPa, Unannealed	215	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	200	--	°C	ISO 75-2/A
Melting Temperature (DSC)	220	--	°C	ISO 3146
CLTE - Flow	3.8E-5	--	cm/cm/°C	
Electrical	Dry	Conditioned	Unit	Test Method
Volume Resistivity	1.0E+13	1.0E+10	ohms·cm	IEC 60093
Dielectric Constant (1 MHz)	3.90	6.20		IEC 60250
Dissipation Factor				IEC 60250
100 Hz	0.020	0.020		
1 MHz	0.020	0.020		
Comparative Tracking Index	400	--	V	IEC 60112
Injection	Dry	Unit		
Drying Temperature	83.0		°C	
Drying Time	2.0 to 4.0		hr	
Suggested Max Moisture	0.15		%	
Processing (Melt) Temp	270 to 295		°C	
Mold Temperature	80.0 to 95.0		°C	
Injection Pressure	3.50 to 12.5		MPa	
Injection Rate	Fast			

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