

Ultramid® B3GM35 Q643

Polyamide 6

BASF Corporation

Message:

Ultramid B3GM35 Q643 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
Specific Gravity	1.48	--	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage - Flow (3.18 mm)	0.40	--	%	
Water Absorption				
Saturation	5.7	--	%	ASTM D570
Saturation, 23°C	5.7	--	%	ISO 62
Equilibrium, 50% RH	1.7	--	%	ASTM D570
Equilibrium, 23°C, 50% RH	1.7	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	7960	--	MPa	ISO 527-2
Tensile Strength (Break, 23°C)	123	--	MPa	ASTM D638, ISO 527-2
Tensile Elongation				
Break, 23°C	2.6	--	%	ASTM D638
Break, 23°C	2.7	--	%	ISO 527-2
Flexural Modulus (23°C)	7500	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	4.1	--	kJ/m ²	ISO 179
Notched Izod Impact				
-40°C	40	--	J/m	ASTM D256

23°C	53	130	J/m	ASTM D256
23°C	4.8	--	kJ/m ²	ISO 180
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				
1.8 MPa, Unannealed	198	--	°C	ASTM D648
1.8 MPa, Unannealed	199	--	°C	ISO 75-2/A
Peak Melting Temperature	220	--	°C	ASTM D3418, ISO 3146
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			

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

