

Durethan® BM 40 X H3.0 EF 000000

Polyamide 6

LANXESS GmbH

Message:

PA 6, 40 % glass fibers/mineral, injection molding, improved flowability, heat-aging stabilized, low tendency to warp, improved surface finish

General Information				
Filler / Reinforcement		Glass\Mineral,40% Filler by Weight		
Additive		Heat Stabilizer		
Features		Good Flow		
		Good Surface Finish		
		Heat Stabilized		
		Low Warpage		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.46	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 2577
Across Flow : 290°C, 2.00 mm ¹	0.70	--	%	
Across Flow : 120°C, 4 hr, 2.00 mm ²	0.20	--	%	
Flow : 290°C, 2.00 mm ³	0.30	--	%	
Flow : 120°C, 4 hr, 2.00 mm ⁴	0.10	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	8500	4600	MPa	ISO 527-2/1
Tensile Stress (Break, 23°C)	125	65.0	MPa	ISO 527-2/5
Tensile Strain (Break, 23°C)	2.3	5.6	%	ISO 527-2/5
Flexural Modulus ⁵ (23°C)	8800	4800	MPa	ISO 178/A
Flexural Stress				ISO 178/A
3.5% Strain,23°C	--	115	MPa	
23°C ⁶	200	125	MPa	
Flexural Strain at Flexural Strength ⁷ (23°C)	2.7	4.5	%	ISO 178/A
ISO Shortname	PA 6, GHR, 10-080, (GF+MD) 40-			ISO 1874
Residual Moisture Content	0.030 to 0.12		%	Karl Fisher
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	< 10	< 10	kJ/m ²	
23°C	< 10	< 10	kJ/m ²	

Charpy Unnotched Impact Strength (23°C)	35	55	kJ/m ²	ISO 179/1eU
Notched Izod Impact Strength				ISO 180/1A
-30°C	< 10	< 10	kJ/m ²	
23°C	< 10	< 10	kJ/m ²	
Unnotched Izod Impact Strength (23°C)	30	45	kJ/m ²	ISO 180/1U
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	217	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	196	--	°C	ISO 75-2/A
Melting Temperature ⁸	219	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow : 23 to 55°C	3.0E-5	--	cm/cm/°C	
Transverse : 23 to 55°C	9.0E-5	--	cm/cm/°C	
Injection	Dry	Unit	Test Method	
Drying Temperature - Dry Air Dryer	80.0		°C	
Drying Time - Dry Air Dryer	2.0 to 6.0		hr	
Processing (Melt) Temp	280 to 300		°C	
Mold Temperature	80.0 to 100		°C	
NOTE				
1.	60x60x2mm, 80°C MT, 600 bar			
2.	60x60x2mm			
3.	60x60x2mm, 80°C MT, 600 bar			
4.	60x60x2mm			
5.	2.0 mm/min			
6.	2.0 mm/min			
7.	2 mm/min			
8.	10°C/min			

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



WECHAT