

Durethan® BG 30 X H2.0 XF 901510

Polyamide 6

LANXESS GmbH

Message:

PA 6, 30 % glass fibers/glass spheres, injection molding, heat-aging stabilized, improved flowability, improved surface finish, low tendency to warp

General Information				
Filler / Reinforcement		Glass Bead\Glass Fiber,30% 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)	1.32	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 2577
Across Flow : 260°C, 2.00 mm ¹	0.60	--	%	
Across Flow : 120°C, 4 hr, 2.00 mm ²	0.20	--	%	
Flow : 260°C, 2.00 mm ³	0.40	--	%	
Flow : 120°C, 4 hr, 2.00 mm ⁴	0.20	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	5300	2800	MPa	ISO 527-2/1
Tensile Stress (Break, 23°C)	90.0	45.0	MPa	ISO 527-2/5
Tensile Strain (Break, 23°C)	3.2	6.5	%	ISO 527-2/5
Flexural Modulus ⁵ (23°C)	5000	2700	MPa	ISO 178/A
Flexural Stress				ISO 178/A
3.5% Strain,23°C	140	70.0	MPa	
23°C ⁶	145	85.0	MPa	
Flexural Strain at Flexural Strength ⁷ (23°C)	3.8	6.0	%	ISO 178/A
ISO Shortname	PA 6, GHR, 10-050, (GB+GF) 30--			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				ISO 179/1eU
-30°C	40	35	kJ/m ²	
23°C	50	55	kJ/m ²	
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				ISO 180/1U
-30°C	35	30	kJ/m ²	
23°C	40	50	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	210	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	185	--	°C	ISO 75-2/A
Vicat Softening Temperature	195	--	°C	ISO 306/B120
Melting Temperature ⁸	220	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow : 23 to 55°C	4.0E-5	--	cm/cm/°C	
Transverse : 23 to 55°C	1.1E-4	--	cm/cm/°C	
Electrical	Dry	Conditioned	Unit	Test Method
Comparative Tracking Index (CTI)	475	--	V	UL 746
Comparative Tracking Index (Solution A)	475	--	V	IEC 60112
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	250 to 290		°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

