

Durethan® BKV 50 G H2.0 EF 000000

Polyamide 6

LANXESS GmbH

Message:

PA 6, 50 % glass fibers, injection molding, improved flowability, heat-aging stabilized, improved surface finish

General Information				
Filler / Reinforcement		Glass fiber reinforced material, 50% filler by weight		
Additive		heat stabilizer		
Features		Good liquidity		
		Thermal Stability		
		Excellent appearance		
Agency Ratings		EC 1907/2006 (REACH)		
Processing Method		Injection molding		
Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.57	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 2577
Vertical flow direction: 280°C, 2.00mm ¹	0.60	--	%	ISO 2577
Vertical flow direction: 120°C, 4 hours, 2.00mm ²	0.10	--	%	ISO 2577
Flow direction: 280°C, 2.00mm ³	0.20	--	%	ISO 2577
Flow direction: 120°C, 4 hours, 2.00mm ⁴	0.050	--	%	ISO 2577
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	16400	11000	MPa	ISO 527-2/1
Tensile Stress (Break, 23°C)	220	140	MPa	ISO 527-2/5
Tensile Strain (Break, 23°C)	2.5	4.3	%	ISO 527-2/5
Flexural Modulus ⁵ (23°C)	15000	11000	MPa	ISO 178/A
Flexural Stress				ISO 178/A
3.5% strain, 23°C	--	220	MPa	ISO 178/A
23°C ⁶	340	230	MPa	ISO 178/A
Flexural Strain at Flexural Strength ⁷ (23°C)	3.0	4.0	%	ISO 178/A
ISO Shortname	PA6, GHR, 10-160, GF50	--		ISO 1874
Residual Moisture Content	0.030 - 0.12		%	Karl Fisher
Impact	Dry	Conditioned	Unit	Test Method
Charpy Unnotched Impact Strength (23°C)	10	15	kJ/m ²	ISO 179/1eU
Notched Izod Impact				ISO 180/1A

-30°C	10	--	kJ/m ²	ISO 180/1A
23°C	10	20	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength (23°C)	90	80	kJ/m ²	ISO 180/1U
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	204	--	°C	ISO 75-2/A
Melting Temperature ⁸	220	--	°C	ISO 11357-3
Injection	Dry	Unit	Test Method	
Drying Temperature - Dry Air Dryer	80.0		°C	
Drying Time - Dry Air Dryer	2.0 - 6.0		hr	
Processing (Melt) Temp	270 - 290		°C	
Mold Temperature	80.0 - 120		°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