

Durethan® BKV 230 DUS008 000000

Polyamide 6

LANXESS GmbH

Message:

PA 6, 30 % glass fibers, injection molding, improved impact strength, heat-aging stabilized

General Information				
Filler / Reinforcement	Glass fiber reinforced material, 30% filler by weight			
Additive	heat stabilizer			
Features	Impact resistance, good			
	Thermal Stability			
Agency Ratings	EC 1907/2006 (REACH)			
Processing Method	Injection molding			
Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.30	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 2577
Vertical flow direction: 280°C, 2.00mm ¹	0.80	--	%	ISO 2577
Vertical flow direction: 120°C, 4 hours, 2.00mm ²	0.16	--	%	ISO 2577
Flow direction: 280°C, 2.00mm ³	0.30	--	%	ISO 2577
Flow direction: 120°C, 4 hours, 2.00mm ⁴	0.070	--	%	ISO 2577
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	8500	4200	MPa	ISO 527-2/1
Tensile Stress (Break, 23°C)	130	80.0	MPa	ISO 527-2/5
Tensile Strain (Break, 23°C)	4.1	8.6	%	ISO 527-2/5
Flexural Modulus ⁵ (23°C)	7400	4200	MPa	ISO 178/A
Flexural Stress				ISO 178/A
3.5% strain, 23°C	190	100	MPa	ISO 178/A
23°C ⁶	205	125	MPa	ISO 178/A
Flexural Strain at Flexural Strength ⁷ (23°C)	4.8	6.6	%	ISO 178/A
ISO Shortname	PA 6-HI, MR, 14-080, GF30	--		ISO 1874
Residual Moisture Content	0.030 - 0.12		%	Karl Fisher
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	13	13	kJ/m ²	ISO 179/1eA
23°C	20	37	kJ/m ²	ISO 179/1eA

Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	95	90	kJ/m ²	ISO 179/1eU
23°C	85	100	kJ/m ²	ISO 179/1eU
Notched Izod Impact				ISO 180/1A
-30°C	15	15	kJ/m ²	ISO 180/1A
23°C	20	35	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength				ISO 180/1U
-30°C	80	80	kJ/m ²	ISO 180/1U
23°C	75	95	kJ/m ²	ISO 180/1U
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, not annealed	218	--	°C	ISO 75-2/B
1.8 MPa, not annealed	198	--	°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	260 - 290		°C	
Mold Temperature	80.0 - 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