Durethan® BKV 130 GIT DUS008 900116

Polyamide 6

LANXESS Corporation

Message:

PA 6, 30 % glass fibers, injection molding, improved impact strength, GIT/WIT

General Information				
Filler / Reinforcement	Glass fiber reinforced material, 30% filler by weight			
Features	Impact resistance, good			
Agency Ratings	EC 1907/2006 (REACH)			
Processing Method	Injection molding			
Physical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Density (23°C)	1.36	--	g/cm³	ISO 1183
Molding Shrinkage				ISO 2577
Vertical flow direction: 280°C, 2.00mm [1]	0.50	--	%	ISO 2577
Vertical flow direction: 120°C, 4 hours, 2.00mm [2]	0.15	--	%	ISO 2577
Flow direction: 280°C, 2.00mm [3]	0.20	--	%	ISO 2577
Flow direction: 120°C, 4 hours, 2.00mm [4]	0.060	--	%	ISO 2577
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus (23°C)	9000	5000	MPa	ISO 527-2/1
Tensile Stress (Break, 23°C)	160	95.0	MPa	ISO 527-2/5
Tensile Strain (Break, 23°C)	3.4	7.5	%	ISO 527-2/5
Flexural Modulus [5] (23°C)	8500	4900	MPa	ISO 178/A
Flexural Stress				ISO 178/A
3.5% strain, 23°C	230	122	MPa	ISO 178/A
23°C [6]	256	145	MPa	ISO 178/A
Flexural Strain at Flexural Strength [7] (23°C)	4.1	6.3	%	ISO 178/A
ISO Shortname	PA 6-HI, GR, 14-090, 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	10	10	kJ/m²	ISO 179/1eA
23°C	15	20	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	65	60	kJ/m²	ISO 179/1eU

23°C	85	85	kJ/m²	ISO 179/1eU
Notched Izod Impact				ISO 180/1A
-30°C	10	10	kJ/m²	ISO 180/1A
23°C	15	15	kJ/m²	ISO 180/1A
Unnotched Izod Impact Strength				ISO 180/1U
-30°C	60	55	kJ/m²	ISO 180/1U
23°C	75	60	kJ/m²	ISO 180/1U
Multi-Axial Instrumented Impact Energy				ISO 6603-2
-30°C	2.50	--	J	ISO 6603-2
23°C	3.80	--	J	ISO 6603-2
Multi-Axial Instrumented Impact Peak Force				ISO 6603-2
-30°C	770	--	N	ISO 6603-2
23°C	935	--	N	ISO 6603-2

Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, not annealed	210	--	°C	ISO 75-2/B
1.8 MPa, not annealed	195	--	°C	ISO 75-2/A
Vicat Softening Temperature	200	--	°C	ISO 306/B120
Melting Temperature [8]	220	--	°C	ISO 11357-3
Linear thermal expansion coefficient				ISO 11359-2
Flow: 23 to 55°C	2.0E-5	--	cm/cm/°C	ISO 11359-2
Lateral: 23 to 55°C	9.0E-5	--	cm/cm/°C	ISO 11359-2

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

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