Durethan® BKV 60 XF 900116

Polyamide 6

LANXESS GmbH

Message:

PA 6, 60 % glass fibers, injection molding, improved flowability, heat-aging stabilized

General Information				
Filler / Reinforcement	Glass fiber reinforced material, 60% filler by weight			
Additive	heat stabilizer			
Features	Good liquidity Thermal Stability			
Agency Ratings	EC 1907/2006 (REACH)			
Processing Method	Injection molding			
Physical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Density (23°C)	1.69	--	g/cm³	ISO 1183
Apparent Density	0.76	--	g/cm³	ISO 60
Molding Shrinkage				ISO 2577
Vertical flow direction: 280°C, 2.00mm [1]	0.52	--	%	ISO 2577
Vertical flow direction: 120°C, 4 hours, 2.00mm [2]	0.070	--	%	ISO 2577
Flow direction: 280°C, 2.00mm [3]	0.25	--	%	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)	20200	13000	MPa	ISO 527-2/1
Tensile Stress (Break, 23°C)	215	140	MPa	ISO 527-2/5
Tensile Strain (Break, 23°C)	2.3	2.8	%	ISO 527-2/5
Flexural Modulus [5] (23°C)	18500	14000	MPa	ISO 178/A
Flexural Stress [6] (23°C)	350	230	MPa	ISO 178/A
Flexural Strain at Flexural Strength [7] (23°C)	2.6	2.8	%	ISO 178/A
ISO Shortname	PA 6, GHR, 10-220, GF60	--		ISO 1874
Residual Moisture Content	0.030 - 0.20		%	Karl Fisher
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength (23°C)	15	--	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	88	--	kJ/m²	ISO 179/1eU
Notched Izod Impact (23°C)	15	--	kJ/m²	ISO 180/1A

Unnotched Izod Impact Strength				ISO 180/1U
-30°C	80	--	kJ/m²	ISO 180/1U
23°C	80	75	kJ/m²	ISO 180/1U
Multi-Axial Instrumented Impact Energy				ISO 6603-2
-30°C	3.40	--	J	ISO 6603-2
23°C	4.20	--	J	ISO 6603-2
Multi-Axial Instrumented Impact Peak Force				ISO 6603-2
-30°C	950	--	N	ISO 6603-2
23°C	1100	--	N	ISO 6603-2
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, not annealed	217	--	°C	ISO 75-2/B
1.8 MPa, not annealed	208	--	°C	ISO 75-2/A
Melting Temperature [8]	221	--	°C	ISO 11357-3
Linear thermal expansion coefficient				ISO 11359-2
Flow: 23 to 55°C	1.1E-5	--	cm/cm/°C	ISO 11359-2
Lateral: 23 to 55°C	8.5E-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	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

Recommended distributors for this material

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