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,50% Filler by Weight			
Additive	Heat Stabilizer			
Features	Good Flow Good Surface Finish Heat Stabilized			
Processing Method	Injection Molding			
Physical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Density (23°C)	1.57	--	g/cm³	ISO 1183
Molding Shrinkage				ISO 2577
Across Flow : 280°C, 2.00 mm [1]	0.60	--	%	
Across Flow : 120°C, 4 hr, 2.00 mm [2]	0.10	--	%	
Flow : 280°C, 2.00 mm [3]	0.20	--	%	
Flow : 120°C, 4 hr, 2.00 mm [4]	0.050	--	%	
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	
23°C [6]	340	230	MPa	
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 to 0.12		%	Karl Fisher
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Unnotched Impact Strength (23°C)	10	15	kJ/m²	ISO 179/1eU
Notched Izod Impact Strength				ISO 180/1A
-30°C	10	--	kJ/m²	

23°C	10	20	kJ/m²	
Unnotched Izod Impact Strength (23°C)	90	80	kJ/m²	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 to 6.0		hr	
Processing (Melt) Temp	270 to 290		°C	
Mold Temperature	80.0 to 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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