Durethan® BKV 30 H2.0 EF DUS029 901510

Polyamide 6

LANXESS Corporation

Message:

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

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Additive	Heat Stabilizer		
Features	Good Flow Good Heat Aging Resistance		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density (23°C)	1.40	g/cm³	ISO 1183
Apparent Density	0.60	g/cm³	ISO 60
Molding Shrinkage			ISO 294-4
Across Flow : 280°C, 2.00 mm [1]	0.70	%	
Across Flow : 120°C, 2 hr, 2.00 mm [2]	0.14	%	
Flow : 280°C, 2.00 mm [3]	0.23	%	
Flow : 120°C, 2 hr, 2.00 mm [4]	0.050	%	
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus (23°C)	9500	MPa	ISO 527-2/1
Tensile Stress (Break, 23°C)	155	MPa	ISO 527-2/5
Tensile Strain (Break, 23°C)	2.9	%	ISO 527-2/5
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	50	kJ/m²	
23°C	65	kJ/m²	
Notched Izod Impact Strength			ISO 180/1A
-30°C	< 10	kJ/m²	
23°C	10	kJ/m²	
Unnotched Izod Impact Strength			ISO 180/1U
-30°C	50	kJ/m²	
23°C	60	kJ/m²	
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature			
0.45 MPa, Unannealed	220	°C	ISO 75-2/B
1.8 MPa, Unannealed	205	°C	ISO 75-2/A
CLTE			ISO 11359-2

Flow : 23 to 55°C	2.0E-5	cm/cm/°C	
Transverse : 23 to 55°C	9.0E-5	cm/cm/°C	
Additional Information	Nominal Value		Test Method
ISO Shortname	PA 6,MHR,12-090,GF30		ISO 1874
Residual Moisture Content	0.030 to 0.12	%	Karl Fisher
Injection	Nominal Value	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.	60x60x2; MT 80°C; 600 Bar		
2.	60x60x2		
3.	60x60x2; MT 80°C; 600 Bar		
4.	60x60x2		

Recommended distributors for this material

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