

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 reinforced material, 30% filler by weight		
Additive	heat stabilizer		
Features	Good liquidity		
	Thermal Stability		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.40	g/cm ³	ISO 1183
Apparent Density	0.60	g/cm ³	ISO 60
Molding Shrinkage			ISO 2577
Vertical flow direction: 280°C, 2.00mm ¹	0.70	%	ISO 2577
Vertical flow direction: 120°C, 4 hours, 2.00mm ²	0.14	%	ISO 2577
Flow direction: 280°C, 2.00mm ³	0.23	%	ISO 2577
Flow direction: 120°C, 4 hours, 2.00mm ⁴	0.050	%	ISO 2577
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/m ²	ISO 179/1eU
23°C	65	kJ/m ²	ISO 179/1eU
Notched Izod Impact			ISO 180/1A
-30°C	< 10	kJ/m ²	ISO 180/1A
23°C	10	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength			ISO 180/1U
-30°C	50	kJ/m ²	ISO 180/1U
23°C	60	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	220	°C	ISO 75-2/B
1.8 MPa, not annealed	205	°C	ISO 75-2/A

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
Additional Information	Nominal Value	Test Method	
ISO Shortname	PA 6,MHR,12-090,GF30	ISO 1874	
Residual Moisture Content	0.030 - 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 - 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		

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