

Durethan® BKV 35 H2.0 EF 901510

Polyamide 6

LANXESS GmbH

Message:

PA 6, 35 % glass fibers, injection molding, improved flowability, heat-aging stabilized

General Information				
Filler / Reinforcement	Glass fiber reinforced material, 35% filler by weight			
Additive	heat stabilizer			
Features	Good liquidity			
	Good heat aging resistance			
Agency Ratings	EC 1907/2006 (REACH)			
Processing Method	Injection molding			
Physical	Dry	Conditioned	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 294-4
Vertical flow direction: 280°C, 2.00mm ¹	0.65	--	%	ISO 294-4
Vertical flow direction: 120°C, 2 hours, 2.00mm ²	0.15	--	%	ISO 294-4
Flow direction: 280°C, 2.00mm ³	0.21	--	%	ISO 294-4
Flow direction: 120°C, 2 hours, 2.00mm ⁴	0.050	--	%	ISO 294-4
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness	210	--	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	10800	6700	MPa	ISO 527-2/1
Tensile Stress (Break, 23°C)	180	115	MPa	ISO 527-2/5
Tensile Strain (Break, 23°C)	3.0	6.0	%	ISO 527-2/5
Flexural Modulus ⁵ (23°C)	10000	5900	MPa	ISO 178/A
Flexural Stress ⁶				
3.5% strain	--	150	MPa	ISO 178/A
23°C	275	180	MPa	ISO 178
Flexural Strain at Flexural Strength ⁷ (23°C)	3.4	6.0	%	
ISO Shortname	PA 6, GHR, 10-100, GF35	--		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	--	kJ/m ²	ISO 179/1eA
23°C	12	15	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	65	55	kJ/m ²	ISO 179/1eU
23°C	85	80	kJ/m ²	ISO 179/1eU
Notched Izod Impact				ISO 180/1A
-30°C	10	--	kJ/m ²	ISO 180/1A
23°C	10	15	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength				ISO 180/1U
-30°C	60	55	kJ/m ²	ISO 180/1U
23°C	70	75	kJ/m ²	ISO 180/1U
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, not annealed	220	--	°C	ISO 75-2/B
1.8 MPa, not annealed	210	--	°C	ISO 75-2/A
8.0 MPa, not annealed	160	--	°C	ISO 75-2/C
Vicat Softening Temperature	210	--	°C	ISO 306/B120
Melting Temperature ⁸	220	--	°C	ISO 11357-3
Linear thermal expansion coefficient				ISO 11359-2
Flow: 23 to 55°C	1.7E-5	--	cm/cm/°C	ISO 11359-2
Lateral: 23 to 55°C	9.8E-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	250 - 290		°C	
Mold Temperature	80.0 - 120		°C	
NOTE				
1.	60x60x2; MT 80°C; 600 Bar			
2.	60x60x2			
3.	60x60x2; MT 80°C; 600 Bar			
4.	60x60x2			
5.	2.0 mm/min			
6.	2.0 mm/min			
7.	Pull Rate: 2 mm/min; 50% RH			
8.	10°C/min			

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