

Durethan® BKV 30 H2.0 EF 901510

Polyamide 6

LANXESS GmbH

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		
		Heat Stabilized		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.35	--	g/cm ³	ISO 1183
Apparent Density	0.60	--	g/cm ³	ISO 60
Molding Shrinkage				ISO 2577
Across Flow : 280°C, 2.00 mm ¹	0.81	--	%	
Across Flow : 120°C, 4 hr, 2.00 mm ²	0.10	--	%	
Flow : 280°C, 2.00 mm ³	0.29	--	%	
Flow : 120°C, 4 hr, 2.00 mm ⁴	0.050	--	%	
Water Absorption				ISO 62
Saturation, 23°C	7.0	--	%	
Equilibrium, 23°C, 50% RH	2.1	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness	193	--	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus				
23°C	8730	--	MPa	ASTM D638
23°C	9400	5500	MPa	ISO 527-2/1
Tensile Strength				
Break, 23°C	165	--	MPa	ASTM D638
Break, 23°C	170	100	MPa	ISO 527-2/5
Tensile Elongation				
Break, 23°C	3.2	--	%	ASTM D638
Break, 23°C	3.0	5.8	%	ISO 527-2/5
Flexural Modulus				

23°C	8000	--	MPa	ASTM D790
23°C ⁵	8400	5000	MPa	ISO 178/A
Flexural Strength				
23°C	260	--	MPa	ASTM D790
3.5% Strain, 23°C	255	140	MPa	ISO 178/A
23°C ⁶	260	170	MPa	ISO 178/A
Flexural Strain at Flexural Strength ⁷ (23°C)	3.6	5.5	%	ISO 178/A
Burning Behavior ⁸	passed	--		ISO 3795
ISO Shortname	PA 6, GHR, 10-090, GF30	--		ISO 1874
Residual Moisture Content	0.030 to 0.12		%	Karl Fisher
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	< 10	--	kJ/m ²	
23°C	11	15	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	55	55	kJ/m ²	
23°C	65	80	kJ/m ²	
Notched Izod Impact Strength				ISO 180/1A
-30°C	< 10	--	kJ/m ²	
23°C	10	20	kJ/m ²	
Unnotched Izod Impact Strength				ISO 180/1U
-30°C	55	50	kJ/m ²	
23°C	60	75	kJ/m ²	
Multi-Axial Instrumented Impact Energy				ISO 6603-2
-30°C	2.10	--	J	
23°C	2.20	--	J	
Multi-Axial Instrumented Impact Peak Force				ISO 6603-2
-30°C	744	--	N	
23°C	803	--	N	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	219	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	210	--	°C	ISO 75-2/A
8.0 MPa, Unannealed	150	--	°C	ISO 75-2/C
Vicat Softening Temperature	210	--	°C	ISO 306/B120
Ball Pressure Test (210°C)	Pass	--		IEC 60695-10-2

Melting Temperature ⁹	221	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow : 23 to 55°C	2.0E-5	--	cm/cm/°C	
Transverse : 23 to 55°C	1.0E-4	--	cm/cm/°C	
Electrical	Dry	Conditioned	Unit	Test Method
Electric Strength (23°C, 1.00 mm)	33	25	kV/mm	IEC 60243-1
Comparative Tracking Index (Solution A)	400	--	V	IEC 60112
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	250 to 290		°C	
Mold Temperature	80.0 to 120		°C	

NOTE

- 60x60x2mm, 80°C MT, 600 bar
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- 60x60x2mm, 80°C MT, 600 bar
- 60x60x2mm
- 2.0 mm/min
- 2.0 mm/min
- 2 mm/min
- US-FMVSS302
- 10°C/min

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