

Durethan® BKV 315 Z H2.0 901510

Polyamide 6

LANXESS Asia/Pacific

Message:

PA 6, 15 % glass fibers, blow molding, improved impact strength, heat-aging stabilized

General Information				
Filler / Reinforcement	Glass fiber reinforced material, 15% filler by weight			
Additive	heat stabilizer			
Features	Impact resistance, good			
	Good heat aging resistance			
Agency Ratings	EC 1907/2006 (REACH)			
Processing Method	Blow molding			
Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.20	--	g/cm ³	ISO 1183
Apparent Density	0.70	--	g/cm ³	ISO 60
Molding Shrinkage				ISO 294-4
Vertical flow direction: 280°C, 2.00mm ¹	0.60	--	%	ISO 294-4
Vertical flow direction: 120°C, 2 hours, 2.00mm ²	0.10	--	%	ISO 294-4
Flow direction: 280°C, 2.00mm ³	0.90	--	%	ISO 294-4
Flow direction: 120°C, 2 hours, 2.00mm ⁴	0.20	--	%	ISO 294-4
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness	140	--	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	5300	2500	MPa	ISO 527-2/1
Tensile Stress (Break, 23°C)	105	55.0	MPa	ISO 527-2/5
Tensile Strain (Break, 23°C)	5.0	19	%	ISO 527-2/5
Flexural Modulus ⁵ (23°C)	4800	2300	MPa	ISO 178/A
Flexural Stress ⁶				
3.5% strain	150	55.0	MPa	ISO 178/A
23°C	165	75.0	MPa	ISO 178
Flexural Strain at Flexural Strength ⁷ (23°C)	5.5	7.5	%	
Burning Behavior ⁸	passed	--		ISO 3795
ISO Shortname	PA 6-HI, BHR, 14-050, GF15	--		ISO 1874
Residual Moisture Content	0.0 - 0.060		%	Karl Fisher
Films	Dry	Conditioned	Unit	Test Method

Film Puncture Energy				ISO 6603-2
-- ⁹	2.50	--	J	ISO 6603-2
-- ¹⁰	4.90	--	J	ISO 6603-2
Film Puncture Force				ISO 6603-2
-- ¹¹	630	--	N	ISO 6603-2
-- ¹²	1200	--	N	ISO 6603-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	< 10	10	kJ/m ²	ISO 179/1eA
23°C	15	30	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	85	90	kJ/m ²	ISO 179/1eU
23°C	80	110	kJ/m ²	ISO 179/1eU
Notched Izod Impact				ISO 180/1A
-30°C	10	< 10	kJ/m ²	ISO 180/1A
23°C	15	30	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength				ISO 180/1U
-30°C	70	65	kJ/m ²	ISO 180/1U
23°C	65	95	kJ/m ²	ISO 180/1U
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, not annealed	210	--	°C	ISO 75-2/B
1.8 MPa, not annealed	175	--	°C	ISO 75-2/A
8.0 MPa, not annealed	58.0	--	°C	ISO 75-2/C
Melting Temperature ¹³	221	--	°C	ISO 11357-3
Linear thermal expansion coefficient				ISO 11359-2
Flow: 23 to 55°C	4.0E-5	--	cm/cm/°C	ISO 11359-2
Lateral: 23 to 55°C	1.3E-4	--	cm/cm/°C	ISO 11359-2
Electrical	Dry	Conditioned	Unit	Test Method
Comparative Tracking Index (Solution A)				IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating				UL 94
1.60 mm	HB	--		UL 94
3.20 mm	HB	--		UL 94
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	270 - 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.	US-FMVSS302	
9.	-30°C	
10.	23°C	
11.	-30°C	
12.	23°C	
13.	10°C/min	

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