

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,15% Filler by Weight			
Additive	Heat Stabilizer			
Features	Good Impact Resistance			
	Heat Stabilized			
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 2577
Across Flow : 280°C, 2.00 mm ¹	0.60	--	%	
Across Flow : 120°C, 4 hr, 2.00 mm ²	0.10	--	%	
Flow : 280°C, 2.00 mm ³	0.90	--	%	
Flow : 120°C, 4 hr, 2.00 mm ⁴	0.20	--	%	
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				ISO 178/A
3.5% Strain,23°C	150	55.0	MPa	
23°C ⁶	165	75.0	MPa	
Flexural Strain at Flexural Strength ⁷ (23°C)	5.5	7.5	%	ISO 178/A
Burning Behavior ⁸	passed	--		ISO 3795
ISO Shortname	PA 6-HI, BHR, 14-050, GF15	--		ISO 1874
Residual Moisture Content	0.0 to 0.060		%	Karl Fisher
Impact	Dry	Conditioned	Unit	Test Method

Charpy Notched Impact Strength				ISO 179/1eA
-30°C	< 10	10	kJ/m ²	
23°C	15	30	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	85	90	kJ/m ²	
23°C	80	110	kJ/m ²	
Notched Izod Impact Strength				ISO 180/1A
-30°C	10	< 10	kJ/m ²	
23°C	15	30	kJ/m ²	
Unnotched Izod Impact Strength				ISO 180/1U
-30°C	70	65	kJ/m ²	
23°C	65	95	kJ/m ²	
Multi-Axial Instrumented Impact Energy				ISO 6603-2
-30°C	2.50	--	J	
23°C	4.90	--	J	
Multi-Axial Instrumented Impact Peak Force				ISO 6603-2
-30°C	630	--	N	
23°C	1200	--	N	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	210	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	175	--	°C	ISO 75-2/A
8.0 MPa, Unannealed	58.0	--	°C	ISO 75-2/C
Melting Temperature ⁹	221	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow : 23 to 55°C	4.0E-5	--	cm/cm/°C	
Transverse : 23 to 55°C	1.3E-4	--	cm/cm/°C	
Electrical	Dry	Conditioned	Unit	Test Method
Comparative Tracking Index (Solution A)	375	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating				UL 94
1.60 mm	HB	--		
3.20 mm	HB	--		
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	270 to 290	°C
Mold Temperature	80.0 to 120	°C

NOTE		
1.	60x60x2mm, 80°C MT, 600 bar	
2.	60x60x2mm	
3.	60x60x2mm, 80°C MT, 600 bar	
4.	60x60x2mm	
5.	2.0 mm/min	
6.	2.0 mm/min	
7.	2 mm/min	
8.	US-FMVSS302	
9.	10°C/min	

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