

Durethan® BKV 215 W1 902176

Polyamide 6

LANXESS GmbH

Message:

PA 6-Copolymer, 15 % glass fibers, injection molding, improved impact strength, weather stabilized

General Information				
Filler / Reinforcement	Glass fiber reinforced material, 15% filler by weight			
Features	Impact resistance, good			
	Good weather resistance			
Processing Method	Injection molding			
Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.18	--	g/cm ³	ISO 1183
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	0.50	--	%	ISO 294-4
Flow direction: 120°C, 2 hours, 2.00mm ⁴	0.10	--	%	ISO 294-4
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	4400	2100	MPa	ISO 527-2/1
Tensile Stress (Break, 23°C)	85.0	50.0	MPa	ISO 527-2/5
Tensile Strain (Break, 23°C)	4.7	20	%	ISO 527-2/5
Flexural Modulus ⁵ (23°C)	3900	1900	MPa	ISO 178/A
Flexural Stress ⁶				
3.5% strain	115	50.0	MPa	ISO 178/A
23°C	135	65.0	MPa	ISO 178
Flexural Strain at Flexural Strength ⁷ (23°C)	5.5	7.5	%	
Burning Behavior ⁸	passed	--		ISO 3795
ISO Shortname	PA 6/66-HI, GLR, 14-040, GF15 --			ISO 1874
Residual Moisture Content	0.030 - 0.12		%	Karl Fisher
Films	Dry	Conditioned	Unit	Test Method
Film Puncture Energy				ISO 6603-2
-- ⁹	3.10	--	J	ISO 6603-2
-- ¹⁰	7.30	--	J	ISO 6603-2
Film Puncture Force				ISO 6603-2
-- ¹¹	785	--	N	ISO 6603-2

-- 12	1760	--	N	ISO 6603-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	80	80	kJ/m ²	ISO 179/1eU
23°C	65	100	kJ/m ²	ISO 179/1eU
Notched Izod Impact (23°C)	20	30	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength				ISO 180/1U
-30°C	60	60	kJ/m ²	ISO 180/1U
23°C	55	80	kJ/m ²	ISO 180/1U
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, not annealed	205	--	°C	ISO 75-2/B
1.8 MPa, not annealed	180	--	°C	ISO 75-2/A
8.0 MPa, not annealed	60.0	--	°C	ISO 75-2/C
Vicat Softening Temperature	193	--	°C	ISO 306/B120
Melting Temperature ¹³	214	--	°C	ISO 11357-3
Linear thermal expansion coefficient				ISO 11359-2
Flow: 23 to 55°C	5.0E-5	--	cm/cm/°C	ISO 11359-2
Lateral: 23 to 55°C	1.6E-4	--	cm/cm/°C	ISO 11359-2
Electrical	Dry	Conditioned	Unit	Test Method
Comparative Tracking Index (Solution A)	600	--	V	IEC 60112
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	260 - 290		°C	
Mold Temperature	80.0 - 100		°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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