

Durethan® BKV 130 H2.0 DUS008 901510

Polyamide 6

LANXESS GmbH

Message:

PA 6, 30 % glass fibers, injection molding, improved impact strength, heat-aging stabilized

General Information				
UL YellowCard		E245249-100868024		
Filler / Reinforcement		Glass fiber reinforced material, 30% filler by weight		
Additive		heat stabilizer		
Features		Impact resistance, good		
		Good heat aging resistance		
Processing Method		Injection molding		
Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.36	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Vertical flow direction: 280°C, 2.00mm ¹	0.80	--	%	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	0.30	--	%	ISO 294-4
Flow direction: 120°C, 2 hours, 2.00mm ⁴	0.10	--	%	ISO 294-4
Water Absorption				ISO 62
Saturated, 23°C	6.6	--	%	ISO 62
Equilibrium, 23°C, 50% RH	2.0	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	9300	5200	MPa	ISO 527-2/1
Tensile Stress (Break, 23°C)	160	100	MPa	ISO 527-2/5
Tensile Strain (Break, 23°C)	3.4	8.0	%	ISO 527-2/5
Flexural Modulus ⁵ (23°C)	8600	4700	MPa	ISO 178/A
Flexural Stress ⁶				
3.5% strain	240	125	MPa	ISO 178/A
23°C	250	155	MPa	ISO 178
Flexural Strain at Flexural Strength ⁷ (23°C)	4.3	6.7	%	
ISO Shortname	PA 6-HI, GHR, 14-090, GF30	--		ISO 1874
Residual Moisture Content	0.030 - 0.12		%	Karl Fisher
Films	Dry	Conditioned	Unit	Test Method

Film Puncture Energy				ISO 6603-2
-- 8	2.50	--	J	ISO 6603-2
-- 9	4.30	--	J	ISO 6603-2
Film Puncture Force				ISO 6603-2
-- 10	765	--	N	ISO 6603-2
-- 11	990	--	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	13	20	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	75	75	kJ/m ²	ISO 179/1eU
23°C	90	90	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	22	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength				ISO 180/1U
-30°C	70	70	kJ/m ²	ISO 180/1U
23°C	80	85	kJ/m ²	ISO 180/1U
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, not annealed	218	--	°C	ISO 75-2/B
1.8 MPa, not annealed	202	--	°C	ISO 75-2/A
Vicat Softening Temperature	212	--	°C	ISO 306/B120
Melting Temperature ¹²	221	--	°C	ISO 11357-3
Linear thermal expansion coefficient				ISO 11359-2
Flow: 23 to 55°C	2.0E-5	--	cm/cm/°C	ISO 11359-2
Lateral: 23 to 55°C	1.0E-4	--	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	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.	-30°C
9.	23°C
10.	-30°C
11.	23°C
12.	10°C/min

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