

Durethan® BKV 230 DUS008 000000

Polyamide 6

LANXESS GmbH

Message:

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

General Information				
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)	1.30	--	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	0.16	--	%	ISO 294-4
Flow direction: 280°C, 2.00mm ³	0.30	--	%	ISO 294-4
Flow direction: 120°C, 2 hours, 2.00mm ⁴	0.070	--	%	ISO 294-4
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	8500	4200	MPa	ISO 527-2/1
Tensile Stress (Break, 23°C)	130	80.0	MPa	ISO 527-2/5
Tensile Strain (Break, 23°C)	4.1	8.6	%	ISO 527-2/5
Flexural Modulus ⁵ (23°C)	7400	4200	MPa	ISO 178/A
Flexural Stress ⁶				
3.5% strain	190	100	MPa	ISO 178/A
23°C	205	125	MPa	ISO 178
Flexural Strain at Flexural Strength ⁷ (23°C)	4.8	6.6	%	
ISO Shortname	PA 6-HI, MR, 14-080, GF30	--		ISO 1874
Residual Moisture Content	0.030 - 0.12		%	Karl Fisher
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	13	13	kJ/m ²	ISO 179/1eA
23°C	20	37	kJ/m ²	ISO 179/1eA

Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	95	90	kJ/m ²	ISO 179/1eU
23°C	85	100	kJ/m ²	ISO 179/1eU
Notched Izod Impact				ISO 180/1A
-30°C	15	15	kJ/m ²	ISO 180/1A
23°C	20	35	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength				ISO 180/1U
-30°C	80	80	kJ/m ²	ISO 180/1U
23°C	75	95	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	198	--	°C	ISO 75-2/A
Melting Temperature ⁸	220	--	°C	ISO 11357-3
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.	10°C/min			

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