

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,30% Filler by Weight		
Additive		Heat Stabilizer		
Features		Good Impact Resistance		
		Heat Stabilized		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.30	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 2577
Across Flow : 280°C, 2.00 mm ¹	0.80	--	%	
Across Flow : 120°C, 4 hr, 2.00 mm ²	0.16	--	%	
Flow : 280°C, 2.00 mm ³	0.30	--	%	
Flow : 120°C, 4 hr, 2.00 mm ⁴	0.070	--	%	
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				ISO 178/A
3.5% Strain,23°C	190	100	MPa	
23°C ⁶	205	125	MPa	
Flexural Strain at Flexural Strength ⁷ (23°C)	4.8	6.6	%	ISO 178/A
ISO Shortname	PA 6-HI, MR, 14-080, GF30	--		ISO 1874
Residual Moisture Content	0.030 to 0.12		%	Karl Fisher
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	13	13	kJ/m ²	
23°C	20	37	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU

-30°C	95	90	kJ/m ²	
23°C	85	100	kJ/m ²	
Notched Izod Impact Strength				ISO 180/1A
-30°C	15	15	kJ/m ²	
23°C	20	35	kJ/m ²	
Unnotched Izod Impact Strength				ISO 180/1U
-30°C	80	80	kJ/m ²	
23°C	75	95	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	218	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	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 to 6.0		hr	
Processing (Melt) Temp	260 to 290		°C	
Mold Temperature	80.0 to 100		°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.	10°C/min			

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