

Durethan® BKV 130 H3.0 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)	1.37	--	g/cm ³	ISO 1183
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	9000	5200	MPa	ISO 527-2/1
Tensile Stress (Break, 23°C)	160	100	MPa	ISO 527-2/5
Tensile Strain (Break, 23°C)	4.0	7.0	%	ISO 527-2/5
Flexural Modulus ¹ (23°C)	8000	4800	MPa	ISO 178/A
Flexural Stress				ISO 178/A
3.5% Strain,23°C	230	115	MPa	
23°C ²	250	145	MPa	
Flexural Strain at Flexural Strength ³ (23°C)	5.0	7.0	%	ISO 178/A
ISO Shortname	PA6-HI, GHR, 14-090, GF30	--		
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	10	10	kJ/m ²	
23°C	18	28	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	80	80	kJ/m ²	
23°C	95	110	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	220	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	205	--	°C	ISO 75-2/A

Melting Temperature ⁴	222	--	°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.	2.0 mm/min			
2.	2.0 mm/min			
3.	2 mm/min			
4.	10°C/min			

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