

Durethan® BKV 135 DUS008 000000

Polyamide 6

LANXESS GmbH

Message:

PA 6, 35 % glass fibers, injection molding, improved impact strength

General Information				
Filler / Reinforcement		Glass fiber reinforced material, 35% filler by weight		
Features		Impact resistance, good		
Processing Method		Injection molding		
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	10200	6000	MPa	ISO 527-2/1
Tensile Stress (Break, 23°C)	170	110	MPa	ISO 527-2/5
Tensile Strain (Break, 23°C)	3.0	7.0	%	ISO 527-2/5
Flexural Modulus ¹ (23°C)	9100	5500	MPa	ISO 178/A
Flexural Stress ²				
3.5% strain	260	140	MPa	ISO 178/A
23°C	280	170	MPa	ISO 178
Flexural Strain at Flexural Strength ³ (23°C)	4.0	6.0	%	
ISO Shortname	PA 6-HI, GR, 14-100, GF35	--		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	10	10	kJ/m ²	ISO 179/1eA
23°C	20	30	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	85	85	kJ/m ²	ISO 179/1eU
23°C	100	110	kJ/m ²	ISO 179/1eU
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, not annealed	210	--	°C	ISO 75-2/B
1.8 MPa, not annealed	200	--	°C	ISO 75-2/A
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.	2.0 mm/min
2.	2.0 mm/min
3.	Pull Rate: 2 mm/min; 50% RH

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