

Durethan® BKV 140 H2.0 DUS008 900051

Polyamide 6

LANXESS GmbH

Message:

PA 6, 40 % glass fibers, injection molding, improved impact strength, heat-aging stabilized

General Information				
Filler / Reinforcement		Glass fiber reinforced material, 40% 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)	1.46	--	g/cm ³	ISO 1183
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	11500	--	MPa	ISO 527-2/1
Tensile Stress (Break, 23°C)	180	--	MPa	ISO 527-2/5
Tensile Strain (Break, 23°C)	3.0	--	%	ISO 527-2/5
Flexural Modulus ¹ (23°C)	10700	--	MPa	ISO 178/A
Flexural Stress ² (23°C)	290	--	MPa	ISO 178
Flexural Strain at Flexural Strength ³ (23°C)	4.0	--	%	
ISO Shortname	PA 6/66-HI, GHR, 14-110, GF40--			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	80	80	kJ/m ²	ISO 179/1eU
23°C	85	110	kJ/m ²	ISO 179/1eU
Thermal	Dry	Conditioned	Unit	Test Method
Melting Temperature ⁴	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.	2.0 mm/min	
2.	2.0 mm/min	
3.	Pull Rate: 2 mm/min; 50% RH	
4.	10°C/min	

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