

Durethan® BKV 35 XTS1 901510

Polyamide 6

LANXESS GmbH

Message:

PA 6, 35 % glass fibers, injection molding, heat-aging stabilized, notably high heat-aging stability

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 35% filler by weight		
Additive	heat stabilizer		
Features	Good heat aging resistance		
	Heat resistance, high		
	Thermal Stability		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.41	g/cm ³	ISO 1183
Molding Shrinkage			ISO 2577
Vertical flow direction: 280°C, 2.00mm ¹	0.73	%	ISO 2577
Vertical flow direction: 120°C, 4 hours, 2.00mm ²	0.91	%	ISO 2577
Flow direction: 280°C, 2.00mm ³	0.23	%	ISO 2577
Flow direction: 120°C, 4 hours, 2.00mm ⁴	0.30	%	ISO 2577
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	10700	MPa	ISO 527-2/1
Tensile Stress (Break, 23°C)	180	MPa	ISO 527-2/5
Nominal Tensile Strain at Break (23°C)	3.0	%	ISO 527-2/50
Flexural Modulus ⁵ (23°C)	10400	MPa	ISO 178/A
Flexural Stress ⁶ (23°C)	270	MPa	ISO 178/A
Flexural Strain at Flexural Strength ⁷ (23°C)	3.4	%	ISO 178/A
ISO Shortname	PA 6, GHR, 14-110, GF35		ISO 1874
Residual Moisture Content	0.030 - 0.12	%	Karl Fisher
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	8.0	kJ/m ²	ISO 179/1eA
23°C	10	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	70	kJ/m ²	ISO 179/1eU
Notched Izod Impact (23°C)	10	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength (23°C)	70	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	205	°C	ISO 75-2/A

Melting Temperature ⁸	221	°C	ISO 11357-3
Linear thermal expansion coefficient			ISO 11359-2
Flow: 23 to 55°C	1.7E-5	cm/cm/°C	ISO 11359-2
Lateral: 23 to 55°C	1.0E-4	cm/cm/°C	ISO 11359-2
Injection	Nominal Value	Unit	Test Method
Drying Temperature - Dry Air Dryer	80.0	°C	
Drying Time - Dry Air Dryer	2.0 - 6.0	hr	
Processing (Melt) Temp	250 - 290	°C	
Mold Temperature	80.0 - 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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