

Durethan® BKV 35 CX H2.0 900876

Polyamide 6

LANXESS Asia/Pacific

Message:

PA 6, 35 % glass fibers, injection molding, heat aging stabilized

General Information				
Filler / Reinforcement		Glass fiber reinforced material, 35% filler by weight		
Features		Good heat aging resistance		
Processing Method		Injection molding		
Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.40	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Vertical flow direction: 260°C, 2.00mm ¹	0.70	--	%	ISO 294-4
Vertical flow direction: 120°C, 2 hours, 2.00mm ²	0.15	--	%	ISO 294-4
Flow direction: 260°C, 2.00mm ³	0.20	--	%	ISO 294-4
Flow direction: 120°C, 2 hours, 2.00mm ⁴	0.050	--	%	ISO 294-4
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	10500	6500	MPa	ISO 527-2/1
Tensile Stress (Break, 23°C)	180	110	MPa	ISO 527-2/5
Tensile Strain (Break, 23°C)	3.0	5.5	%	ISO 527-2/5
Flexural Modulus ⁵ (23°C)	10000	--	MPa	ISO 178/A
Flexural Stress ⁶				
3.5% strain	270	--	MPa	ISO 178/A
23°C	280	--	MPa	ISO 178
Flexural Strain at Flexural Strength ⁷ (23°C)	4.0	--	%	
ISO Shortname	PA 6, GHR, 10-100, GF35	--		ISO 1874
Residual Moisture Content	0.030 - 0.12		%	Karl Fisher
Impact	Dry	Conditioned	Unit	Test Method
Notched Izod Impact (23°C)	10	--	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength				ISO 180/1U
-30°C	60	--	kJ/m ²	ISO 180/1U
23°C	70	--	kJ/m ²	ISO 180/1U
Thermal	Dry	Conditioned	Unit	Test Method

Heat Deflection Temperature (1.8 MPa, Unannealed)	205	--	°C	ISO 75-2/A
Melting Temperature ⁸	220	--	°C	ISO 11357-3
Flammability	Dry	Conditioned		Test Method
Flame Rating (1.60 mm)	HB	--		UL 94
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	250 - 290		°C	
Mold Temperature	80.0 - 120		°C	

NOTE

1. 60x60x2; MT 80°C; 600 Bar
2. 60x60x2
3. 60x60x2; MT 80°C; 600 Bar
4. 60x60x2
5. 2.0 mm/min
6. 2.0 mm/min
7. Pull Rate: 2 mm/min; 50% RH
8. 10°C/min

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