

Durethan® AKV 35 CX H2.0 900876

Polyamide 66

LANXESS Asia/Pacific

Message:

PA 66, 35 % glass fibers, injection molding, heat aging stabilized

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 35% filler by weight		
Additive	heat stabilizer		
Features	Good heat aging resistance		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.41	g/cm ³	ISO 1183
Molding Shrinkage			ISO 294-4
Vertical flow direction: 290°C, 2.00mm ¹	0.90	%	ISO 294-4
Vertical flow direction: 120°C, 2 hours, 2.00mm ²	0.070	%	ISO 294-4
Flow direction: 290°C, 2.00mm ³	0.30	%	ISO 294-4
Flow direction: 120°C, 2 hours, 2.00mm ⁴	0.070	%	ISO 294-4
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	11000	MPa	ISO 527-2/1
Tensile Stress (Break, 23°C)	197	MPa	ISO 527-2/5
Tensile Strain (Break, 23°C)	2.8	%	ISO 527-2/5
Flexural Modulus ⁵ (23°C)	10900	MPa	ISO 178/A
Flexural Stress ⁶ (23°C)	296	MPa	ISO 178
Flexural Strain at Flexural Strength ⁷ (23°C)	3.2	%	
ISO Shortname	PA 66, GHR, 12-110, GF35		ISO 1874
Residual Moisture Content	0.020 - 0.070	%	Karl Fisher
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	10	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength (23°C)	58	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	> 240	°C	ISO 75-2/A
Melting Temperature ⁸	260	°C	ISO 11357-3
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	280 - 300	°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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