

Durethan® AKV 35 XTS1 901510

Polyamide 66

LANXESS GmbH

Message:

PA 66, 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	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.41	--	g/cm ³	ISO 1183
Apparent Density	0.70	--	g/cm ³	ISO 60
Molding Shrinkage				ISO 2577
Vertical flow direction: 280°C, 2.00mm ¹	0.90	--	%	ISO 2577
Vertical flow direction: 120°C, 4 hours, 2.00mm ²	0.15	--	%	ISO 2577
Flow direction: 280°C, 2.00mm ³	0.35	--	%	ISO 2577
Flow direction: 120°C, 4 hours, 2.00mm ⁴	0.050	--	%	ISO 2577
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	10700	6800	MPa	ISO 527-2/1
Tensile Stress (Break, 23°C)	185	105	MPa	ISO 527-2/5
Tensile Strain (Break, 23°C)	3.2	5.0	%	ISO 527-2/5
Flexural Modulus ⁵ (23°C)	10100	6200	MPa	ISO 178/A
Flexural Stress				ISO 178/A
3.5% strain, 23°C	280	140	MPa	ISO 178/A
23°C ⁶	280	180	MPa	ISO 178/A
Flexural Strain at Flexural Strength ⁷ (23°C)	3.5	5.0	%	ISO 178/A
ISO Shortname	ISO 1874 - PA 66, GHR, 14-110,-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	10	15	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	75	85	kJ/m ²	ISO 179/1eU
Notched Izod Impact				ISO 180/1A
-30°C	< 10	< 10	kJ/m ²	ISO 180/1A
23°C	10	15	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength (23°C)	65	70	kJ/m ²	ISO 180/1U
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, not annealed	250	--	°C	ISO 75-2/B
1.8 MPa, not annealed	235	--	°C	ISO 75-2/A
Melting Temperature ⁸	261	--	°C	ISO 11357-3
Linear thermal expansion coefficient				ISO 11359-2
Flow: 23 to 55°C	9.5E-5	--	cm/cm/°C	ISO 11359-2
Lateral: 23 to 55°C	2.0E-5	--	cm/cm/°C	ISO 11359-2
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	270 - 290		°C	
Mold Temperature	80.0 - 120		°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			

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

