

Durethan® DP AKV 50 HR H2.0 901510

Polyamide 66

LANXESS GmbH

Message:

PA 66, 50 % glass fibers, injection molding, heat-aging stabilized, hydrolysis stabilized

General Information				
Filler / Reinforcement		Glass fiber reinforced material, 50% filler by weight		
Additive		Hydrolysis resistance heat stabilizer		
Features		Thermal Stability		
Agency Ratings		EC 1907/2006 (REACH)		
Processing Method		Injection molding		
Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.57	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 2577
Vertical flow direction: 300°C, 2.00mm ¹	0.92	--	%	ISO 2577
Vertical flow direction: 120°C, 4 hours, 2.00mm ²	0.11	--	%	ISO 2577
Flow direction: 300°C, 2.00mm ³	0.37	--	%	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)	15500	10600	MPa	ISO 527-2/1
Tensile Stress (Break, 23°C)	220	159	MPa	ISO 527-2/5
Tensile Strain (Break, 23°C)	2.7	4.4	%	ISO 527-2/5
Flexural Modulus ⁵ (23°C)	15500	10500	MPa	ISO 178/A
Flexural Stress				ISO 178/A
3.5% strain, 23°C	--	237	MPa	ISO 178/A
23°C ⁶	355	260	MPa	ISO 178/A
Flexural Strain at Flexural Strength ⁷ (23°C)	3.1	4.6	%	ISO 178/A
ISO Shortname	PA 66, GHRW, 14-160, GF50	--		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	12	13	kJ/m ²	ISO 179/1eA
23°C	15	20	kJ/m ²	ISO 179/1eA

Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	110	100	kJ/m ²	ISO 179/1eU
23°C	100	95	kJ/m ²	ISO 179/1eU
Notched Izod Impact				ISO 180/1A
-30°C	13	14	kJ/m ²	ISO 180/1A
23°C	15	20	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength				ISO 180/1U
-30°C	90	85	kJ/m ²	ISO 180/1U
23°C	90	85	kJ/m ²	ISO 180/1U
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	245	--	°C	ISO 75-2/A
Linear thermal expansion coefficient				ISO 11359-2
Flow: 23 to 55°C	2.0E-5	--	cm/cm/°C	ISO 11359-2
Lateral: 23 to 55°C	7.0E-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	280 - 300		°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			

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