Durethan® AKV 30 G HR DUS023 900116

Polyamide 66

LANXESS GmbH

Message:

PA 66, 30 % glass fibers, injection molding, improved flowability, hydrolysis stabilized, improved surface finish, GIT/WIT

General Information				
Filler / Reinforcement	Glass fiber reinforced material, 30% filler by weight			
Additive	Hydrolysis resistance			
Features	Good liquidity Excellent appearance			
Processing Method	Injection molding			
Physical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Density (23°C)	1.34	--	g/cm³	ISO 1183
Molding Shrinkage				ISO 294-4
Vertical flow direction: 290°C, 2.00mm [1]	0.82	--	%	ISO 294-4
Vertical flow direction: 120°C, 2 hours, 2.00mm [2]	0.040	--	%	ISO 294-4
Flow direction: 290°C, 2.00mm [3]	0.64	--	%	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)	8500	5600	MPa	ISO 527-2/1
Tensile Stress (Break, 23°C)	135	90.0	MPa	ISO 527-2/5
Tensile Strain (Break, 23°C)	3.2	6.5	%	ISO 527-2/5
Flexural Modulus [5] (23°C)	8000	5600	MPa	ISO 178/A
Flexural Stress [6]				
3.5% strain	210	130	MPa	ISO 178/A
23°C	215	150	MPa	ISO 178
Flexural Strain at Flexural Strength [7] (23°C)	3.8	5.8	%	
ISO Shortname	PA 66, GHRW, 14-080, GF30	--		ISO 1874
Residual Moisture Content	0.030 - 0.12		%	Karl Fisher
Films	**Dry**	**Conditioned**	**Unit**	**Test Method**
Film Puncture Energy				ISO 6603-2
-- [8]	2.00	--	J	ISO 6603-2
-- [9]	2.50	--	J	ISO 6603-2
Film Puncture Force				ISO 6603-2
-- [10]	650	--	N	ISO 6603-2

-- [11]	800	--	N	ISO 6603-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	< 10	< 10	kJ/m²	ISO 179/1eA
23°C	< 10	< 10	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	55	--	kJ/m²	ISO 179/1eU
23°C	70	65	kJ/m²	ISO 179/1eU
Notched Izod Impact				ISO 180/1A
-30°C	< 10	< 10	kJ/m²	ISO 180/1A
23°C	< 10	< 10	kJ/m²	ISO 180/1A
Unnotched Izod Impact Strength				ISO 180/1U
-30°C	45	--	kJ/m²	ISO 180/1U
23°C	60	60	kJ/m²	ISO 180/1U
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, not annealed	245	--	°C	ISO 75-2/B
1.8 MPa, not annealed	200	--	°C	ISO 75-2/A
8.0 MPa, not annealed	75.0	--	°C	ISO 75-2/C
Melting Temperature [12]	259	--	°C	ISO 11357-3
Linear thermal expansion coefficient				ISO 11359-2
Flow: 23 to 55°C	3.0E-5	--	cm/cm/°C	ISO 11359-2
Lateral: 23 to 55°C	9.0E-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.	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.	-30°C			

9.	23°C
10.	-30°C
11.	23°C
12.	10°C/min

Recommended distributors for this material

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