

Durethan® DP AKV 30 HR EF 901510

Polyamide 66

LANXESS Asia/Pacific

Message:

PA 66, 30 % glass fibers, injection molding, improved flowability, heat-aging stabilized, hydrolysis stabilized

General Information				
Filler / Reinforcement		Glass fiber reinforced material, 30% filler by weight		
Additive		Hydrolysis resistance heat stabilizer		
Features		Good liquidity Good heat aging resistance		
Agency Ratings		EC 1907/2006 (REACH)		
Forms		Particle		
Processing Method		Injection molding		
Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.32	--	g/cm ³	ISO 1183
Apparent Density	0.70	--	g/cm ³	ISO 60
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	0.37	--	%	ISO 294-4
Flow direction: 120°C, 2 hours, 2.00mm ⁴	0.060	--	%	ISO 294-4
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	8200	5000	MPa	ISO 527-2/1
Tensile Stress (Break, 23°C)	150	100	MPa	ISO 527-2/5
Tensile Strain (Break, 23°C)	3.6	8.0	%	ISO 527-2/5
Flexural Modulus ⁵ (23°C)	8100	5000	MPa	ISO 178/A
Flexural Stress ⁶				
3.5% strain	225	125	MPa	ISO 178/A
23°C	240	150	MPa	ISO 178
Flexural Strain at Flexural Strength ⁷ (23°C)	4.0	6.0	%	
Burning Behavior ⁸	passed	--		ISO 3795
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
-- ⁹	2.50	--	J	ISO 6603-2
-- ¹⁰	2.70	--	J	ISO 6603-2
Film Puncture Force				ISO 6603-2
-- ¹¹	756	--	N	ISO 6603-2
-- ¹²	774	--	N	ISO 6603-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	< 10	--	kJ/m ²	ISO 179/1eA
23°C	10	--	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	70	--	kJ/m ²	ISO 179/1eU
23°C	80	80	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				ISO 180/1U
-30°C	65	60	kJ/m ²	ISO 180/1U
23°C	70	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	240	--	°C	ISO 75-2/A
Melting Temperature ¹³	263	--	°C	ISO 11357-3
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.	US-FMVSS302
9.	-30°C
10.	23°C
11.	-30°C
12.	23°C
13.	10°C/min

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