

Durethan® DP AKV 30 FN00 000000

Polyamide 66

LANXESS GmbH

Message:

PA 66, 30 % glass fibers, injection molding, halogen free flame retardant

General Information				
UL YellowCard		E245249-607797	E245249-101229260	
Filler / Reinforcement		Glass Fiber,30% Filler by Weight		
Additive		Flame Retardant		
Features		Flame Retardant		
		Halogen Free		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.42	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 2577
Across Flow : 270°C, 2.00 mm ¹	0.70	--	%	
Across Flow : 120°C, 4 hr, 2.00 mm ²	0.10	--	%	
Flow : 270°C, 2.00 mm ³	0.20	--	%	
Flow : 120°C, 4 hr, 2.00 mm ⁴	0.10	--	%	
Water Absorption				ISO 62
Saturation, 23°C	4.4	--	%	
Equilibrium, 23°C, 50% RH	1.4	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	10500	6500	MPa	ISO 527-2/1
Tensile Stress (Break, 23°C)	135	85.0	MPa	ISO 527-2/5
Tensile Strain (Break, 23°C)	2.8	5.4	%	ISO 527-2/5
Flexural Modulus ⁵ (23°C)	9300	5600	MPa	ISO 178/A
Flexural Stress				ISO 178/A
3.5% Strain,23°C	--	120	MPa	
23°C ⁶	215	135	MPa	
Flexural Strain at Flexural Strength ⁷ (23°C)	3.1	5.2	%	ISO 178/A
ISO Shortname	PA 66, GFHR, 14-100, GF30, ISO-1043-PA GF FR (30+40)			ISO 1874
Residual Moisture Content	0.030 to 0.070		%	Karl Fisher
Impact	Dry	Conditioned	Unit	Test Method

Charpy Notched Impact Strength				ISO 179/1eA
-30°C	< 10	--	kJ/m ²	
23°C	< 10	--	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	60	--	kJ/m ²	
23°C	65	--	kJ/m ²	
Notched Izod Impact Strength				ISO 180/1A
-30°C	< 10	--	kJ/m ²	
23°C	< 10	--	kJ/m ²	
Unnotched Izod Impact Strength				ISO 180/1U
-30°C	50	--	kJ/m ²	
23°C	55	57	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	> 250	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	224	--	°C	ISO 75-2/A
Vicat Softening Temperature	240	--	°C	ISO 306/B120
Melting Temperature ⁸	260	--	°C	ISO 11357-3
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	3.0E+16	4.0E+14	ohms	IEC 60093
Volume Resistivity (23°C)	5.0E+15	5.0E+12	ohms·cm	IEC 60093
Electric Strength (23°C, 1.00 mm)	39	35	kV/mm	IEC 60243-1
Relative Permittivity				IEC 60250
23°C, 100 Hz	3.90	8.70		
23°C, 1 MHz	3.70	4.10		
Dissipation Factor				IEC 60250
23°C, 100 Hz	8.0E-3	0.13		
23°C, 1 MHz	0.012	0.070		
Comparative Tracking Index (Solution A)	600	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating				UL 94
0.400 mm	V-0	--		
1.50 mm	V-0	--		
3.00 mm	V-0	--		
Glow Wire Flammability Index				IEC 60695-2-12
0.800 mm	960	--	°C	

1.50 mm	960	--	°C
3.00 mm	960	--	°C
Glow Wire Ignition Temperature			IEC 60695-2-13
0.750 mm	725	--	°C
1.50 mm	725	--	°C
3.00 mm	725	--	°C
Injection	Dry	Unit	Test Method
Drying Temperature - Dry Air Dryer	80.0		°C
Drying Time - Dry Air Dryer	2.0 to 6.0		hr
Processing (Melt) Temp	265 to 285		°C
Mold Temperature	80.0 to 100		°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		

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