

Durethan® DP A 30 S FN30 DUS025 000000

Polyamide 66

LANXESS Asia/Pacific

Message:

PA 66, non-reinforced, injection molding, halogen free flame retardant, improved flowability

General Information				
UL YellowCard	E245249-100600971			
Features	Halogen-free			
	Flame retardancy			
Agency Ratings	EC 1907/2006 (REACH)			
Processing Method	Injection molding			
Resin ID (ISO 1043)	PA FR(30)			
Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.17	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Vertical flow direction: 270°C, 2.00mm ¹	1.1	--	%	ISO 294-4
Vertical flow direction: 120°C, 2 hours, 2.00mm ²	0.10	--	%	ISO 294-4
Flow direction: 270°C, 2.00mm ³	1.1	--	%	ISO 294-4
Flow direction: 120°C, 2 hours, 2.00mm ⁴	0.10	--	%	ISO 294-4
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	3800	1500	MPa	ISO 527-2/1
Tensile Stress (Yield, 23°C)	85.0	50.0	MPa	ISO 527-2/50
Tensile Strain (Yield, 23°C)	4.1	> 20	%	ISO 527-2/50
Flexural Modulus ⁵ (23°C)	3900	1600	MPa	ISO 178/A
Flexural Stress ⁶				
3.5% strain	115	40.0	MPa	ISO 178/A
23°C	135	55.0	MPa	ISO 178
Flexural Strain at Flexural Strength ⁷ (23°C)	5.8	8.0	%	
ISO Shortname	PA 66, GF, 14-040; ISO 1043 PA-FR (30)			ISO 1874
Residual Moisture Content	0.030 - 0.070		%	Karl Fisher
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	< 10	< 10	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength				ISO 179/1eU

-30°C	50	80	kJ/m ²	ISO 179/1eU
23°C	60 kJ/m ²	No Break		ISO 179/1eU
Notched Izod Impact (23°C)	< 10	< 10	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength				ISO 180/1U
-30°C	45	55	kJ/m ²	ISO 180/1U
23°C	45 kJ/m ²	No Break		ISO 180/1U
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, not annealed	212	--	°C	ISO 75-2/B
1.8 MPa, not annealed	80.0	--	°C	ISO 75-2/A
Vicat Softening Temperature	230	--	°C	ISO 306/B120
Melting Temperature ⁸	265	--	°C	ISO 11357-3
Linear thermal expansion coefficient				ISO 11359-2
Flow: 23 to 55°C	8.0E-5	--	cm/cm/°C	ISO 11359-2
Lateral: 23 to 55°C	7.0E-5	--	cm/cm/°C	ISO 11359-2
Electrical	Dry	Conditioned	Unit	Test Method
Comparative Tracking Index (Solution A)	600	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (0.400 mm)	V-0	--		UL 94
Glow Wire Flammability Index (0.400 mm)	960	--	°C	IEC 60695-2-12
Glow Wire Ignition Temperature (0.400 mm)	775	--	°C	IEC 60695-2-13
Oxygen Index ⁹	35	--	%	ISO 4589-2
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	260 - 270		°C	
Mold Temperature	80.0 - 100		°C	
NOTE				
1.	60x60x2; WZ 80°C; 600 Bar			
2.	60x60x2			
3.	60x60x2; WZ 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.	10°C/min
9.	Procedure A

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