

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			
Additive	Flame Retardant			
Features	Flame Retardant			
	Good Flow			
	Halogen Free			
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 2577
Across Flow : 270°C, 2.00 mm ¹	1.1	--	%	
Across Flow : 120°C, 4 hr, 2.00 mm ²	0.10	--	%	
Flow : 270°C, 2.00 mm ³	1.1	--	%	
Flow : 120°C, 4 hr, 2.00 mm ⁴	0.10	--	%	
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				ISO 178/A
3.5% Strain, 23°C	115	40.0	MPa	
23°C ⁶	135	55.0	MPa	
Flexural Strain at Flexural Strength ⁷ (23°C)	5.8	8.0	%	ISO 178/A
ISO Shortname	PA 66, GF, 14-040	--		ISO 1874
Residual Moisture Content	0.030 to 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/m²	
23°C	60 kJ/m²	No Break		
Notched Izod Impact Strength (23°C)				
< 10	< 10	kJ/m²		ISO 180/1A
Unnotched Izod Impact Strength				
-30°C	45	55	kJ/m²	
23°C	45 kJ/m²	No Break		
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	212	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	80.0	--	°C	ISO 75-2/A
Vicat Softening Temperature	230	--	°C	ISO 306/B120
Melting Temperature ⁸	265	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow : 23 to 55°C	8.0E-5	--	cm/cm/°C	
Transverse : 23 to 55°C	7.0E-5	--	cm/cm/°C	
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 to 6.0	hr		
Processing (Melt) Temp	260 to 270	°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
9.	Procedure A

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

