

Durethan® DP 2802/30 000000

Polyamide 66

LANXESS Corporation

Message:

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

General Information				
UL YellowCard		E245249-473613		
Filler / Reinforcement		Glass fiber reinforced material, 30% filler by weight		
Additive		Flame retardancy		
Features		Halogen-free		
		Flame retardancy		
Processing Method		Injection molding		
Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.40	--	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (270°C/2.16 kg)	17.0	--	cm ³ /10min	ISO 1133
Molding Shrinkage				ISO 2577
Vertical flow direction: 280°C, 2.00mm ¹	0.90	--	%	ISO 2577
Vertical flow direction: 120°C, 4 hours, 2.00mm ²	0.20	--	%	ISO 2577
Flow direction: 280°C, 2.00mm ³	0.80	--	%	ISO 2577
Flow direction: 120°C, 4 hours, 2.00mm ⁴	0.20	--	%	ISO 2577
Viscosity Number	127	--	cm ³ /g	ISO 307
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness	200	--	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	6000	3900	MPa	ISO 527-2/1
Tensile Stress (Break, 23°C)	85.0	56.0	MPa	ISO 527-2/5
Tensile Strain (Break, 23°C)	3.5	13	%	ISO 527-2/5
Flexural Modulus ⁵ (23°C)	6700	3700	MPa	ISO 178/A
Flexural Stress				ISO 178/A
3.5% strain, 23°C	165	80.0	MPa	ISO 178/A
23°C ⁶	170	90.0	MPa	ISO 178/A
Flexural Strain at Flexural Strength ⁷ (23°C)	4.3	6.5	%	ISO 178/A
ISO Shortname	PA 66, GF, 14-060, GF30; ISO 1043-PA GF 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 (23°C)	35	60	kJ/m ²	ISO 179/1eU
Notched Izod Impact (23°C)	< 10	< 10	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength (23°C)	30	50	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	200	--	°C	ISO 75-2/A
Vicat Softening Temperature				
--	245	--	°C	ISO 306/B50
--	> 230	--	°C	ISO 306/B120
Ball Pressure Test (255°C)	Pass	--		IEC 60695-10-2
Melting Temperature ⁸	263	--	°C	ISO 11357-3
Linear thermal expansion coefficient				ISO 11359-2
Flow: 23 to 55°C	4.0E-5	--	cm/cm/°C	ISO 11359-2
Lateral: 23 to 55°C	8.0E-5	--	cm/cm/°C	ISO 11359-2
Electrical	Dry	Conditioned	Unit	Test Method
Dielectric Strength (23°C, 1.00 mm)	33	--	kV/mm	IEC 60243-1
Comparative Tracking Index (Solution A)	600	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating				UL 94
0.750 mm	V-2	--		UL 94
1.50 mm	V-2	--		UL 94
Glow Wire Flammability Index				IEC 60695-2-12
0.750 mm	960	--	°C	IEC 60695-2-12
1.50 mm	960	--	°C	IEC 60695-2-12
3.00 mm	960	--	°C	IEC 60695-2-12
Glow Wire Ignition Temperature (0.750 mm)	775	--	°C	IEC 60695-2-13
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.	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

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



WECHAT