

POCAN® DP CF 2200 000000

Polycarbonate + PBT

LANXESS GmbH

Message:

PBT+PC, non-reinforced, injection molding, flame retardant, improved impact strength, low tendency to warp

General Information			
UL YellowCard	E245249-507469		
Features	Impact resistance, good		
	Flame retardancy		
Agency Ratings	EC 1907/2006 (REACH)		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.31	g/cm ³	ISO 1183
Apparent Density	0.80	g/cm ³	ISO 60
Melt Volume-Flow Rate (MVR) (260°C/5.0 kg)	15.0	cm ³ /10min	ISO 1133
Molding Shrinkage			ISO 294-4
Vertical flow direction: 250°C, 2.00mm ¹	0.90	%	ISO 294-4
Vertical flow direction: 120°C, 2 hours, 2.00mm ²	0.50	%	ISO 294-4
Flow direction: 250°C, 2.00mm ³	0.90	%	ISO 294-4
Flow direction: 120°C, 2 hours, 2.00mm ⁴	0.50	%	ISO 294-4
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness	104	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	2400	MPa	ISO 527-2/1
Tensile Stress (Yield, 23°C)	45.0	MPa	ISO 527-2/50
Tensile Strain (Yield, 23°C)	2.9	%	ISO 527-2/50
Nominal Tensile Strain at Break (23°C)	> 15	%	ISO 527-2/50
Flexural Modulus ⁵ (23°C)	2500	MPa	ISO 178/A
Flexural Stress ⁶			
3.5% strain	70.0	MPa	ISO 178/A
23°C	75.0	MPa	ISO 178
Flexural Strain at Flexural Strength ⁷ (23°C)	5.0	%	
ISO Shortname	PBT+PC, GFHLMPP, 09-020; ISO1043-(PBT+PC) FR (17)		ISO 7792
Admissible Residence Time at Tmax		min	
Residual Moisture Content	0.0 - 0.020	%	Karl Fisher
Impact	Nominal Value	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	170	kJ/m ²	ISO 179/1eU
23°C	No Break		ISO 179/1eU
Notched Izod Impact			ISO 180/1A
-30°C	< 10	kJ/m ²	ISO 180/1A
0°C	11	kJ/m ²	ISO 180/1A
23°C	10	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength			ISO 180/1U
-30°C	150	kJ/m ²	ISO 180/1U
23°C	No Break		ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	95.0	°C	ISO 75-2/B
1.8 MPa, not annealed	75.0	°C	ISO 75-2/A
Vicat Softening Temperature	118	°C	ISO 306/B120
Ball Pressure Test (115°C)	Pass		IEC 60695-10-2
Melting Temperature ⁸	225	°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	1.0E-4	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Relative Permittivity			IEC 60250
23°C, 100 Hz	3.30		IEC 60250
23°C, 1 MHz	2.90		IEC 60250
Dissipation Factor			IEC 60250
23°C, 100 Hz	0.025		IEC 60250
23°C, 1 MHz	0.014		IEC 60250
Comparative Tracking Index (Solution A)	300	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.750 mm)	V-0		UL 94
Glow Wire Flammability Index (0.800 mm)	960	°C	IEC 60695-2-12
Glow Wire Ignition Temperature			IEC 60695-2-13
0.800 mm	800	°C	IEC 60695-2-13
1.60 mm	800	°C	IEC 60695-2-13
3.00 mm	800	°C	IEC 60695-2-13
Injection	Nominal Value	Unit	Test Method
Drying Temperature - Circulation Dryer	120	°C	
Drying Time - Circulation Dryer	4.0 - 8.0	hr	
Processing (Melt) Temp	240 - 260	°C	
Mold Temperature	60.0 - 80.0	°C	

NOTE	
1.	60x60x2; WZ 60°C; 600 Bar
2.	60x60x2
3.	60x60x2; WZ 60°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

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

