

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		
Additive	Flame retardancy		
Features	Low warpage		
	Impact resistance, good		
	Flame retardancy		
Agency Ratings	EC 1907/2006 (REACH)		
Processing Method	Injection molding		
Resin ID (ISO 1043)	(PBT+PC) FR (17)		
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 2577
Vertical flow direction: 250°C, 2.00mm ¹	0.90	%	ISO 2577
Vertical flow direction: 120°C, 4 hours, 2.00mm ²	0.50	%	ISO 2577
Flow direction: 250°C, 2.00mm ³	0.90	%	ISO 2577
Flow direction: 120°C, 4 hours, 2.00mm ⁴	0.50	%	ISO 2577
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			ISO 178/A
3.5% strain, 23°C	70.0	MPa	ISO 178/A
23°C ⁶	75.0	MPa	ISO 178/A
Flexural Strain at Flexural Strength ⁷ (23°C)	5.0	%	ISO 178/A
ISO Shortname	PBT+PC, GFHLMPP, 09-020		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.	60x60x2mm, 60°C MT, 600 bar
2.	60x60x2mm
3.	60x60x2mm, 60°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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