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 Retardant		
Features	Flame Retardant Good Impact Resistance Low Warpage		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density (23°C)	1.31	g/cm³	ISO 1183
Apparent Density	0.80	g/cm³	ISO 60
Melt Volume-Flow Rate (MVR) (260°C/5.0 kg)	15.0	cm³/10min	ISO 1133
Molding Shrinkage			ISO 2577
Across Flow : 250°C, 2.00 mm [1]	0.90	%	
Across Flow : 120°C, 4 hr, 2.00 mm [2]	0.50	%	
Flow : 250°C, 2.00 mm [3]	0.90	%	
Flow : 120°C, 4 hr, 2.00 mm [4]	0.50	%	
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	
23°C [6]	75.0	MPa	
Flexural Strain at Flexural Strength [7] (23°C)	5.0	%	ISO 178/A
ISO Shortname	PBT+PC, GFHLMPR, 09-020; ISO1043-(PBT+PC) FR (17)		ISO 7792
Admissible Residence Time at Tmax	< 5.0	min	
Residual Moisture Content	0.0 to 0.020	%	Karl Fisher
Impact	**Nominal Value**	**Unit**	**Test Method**

Charpy Notched Impact Strength			ISO 179/1eA
-30°C	< 10	kJ/m²	
23°C	10	kJ/m²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	170	kJ/m²	
23°C	No Break		
Notched Izod Impact Strength			ISO 180/1A
-30°C	< 10	kJ/m²	
0°C	11	kJ/m²	
23°C	10	kJ/m²	
Unnotched Izod Impact Strength			ISO 180/1U
-30°C	150	kJ/m²	
23°C	No Break		
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature			
0.45 MPa, Unannealed	95.0	°C	ISO 75-2/B
1.8 MPa, Unannealed	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
CLTE			ISO 11359-2
Flow : 23 to 55°C	8.0E-5	cm/cm/°C	
Transverse : 23 to 55°C	1.0E-4	cm/cm/°C	
Electrical	**Nominal Value**	**Unit**	**Test Method**
Relative Permittivity			IEC 60250
23°C, 100 Hz	3.30		
23°C, 1 MHz	2.90		
Dissipation Factor			IEC 60250
23°C, 100 Hz	0.025		
23°C, 1 MHz	0.014		
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	
1.60 mm	800	°C	
3.00 mm	800	°C	
Injection	**Nominal Value**	**Unit**	**Test Method**
Drying Temperature - Circulation Dryer	120	°C	
Drying Time - Circulation Dryer	4.0 to 8.0	hr	
Processing (Melt) Temp	240 to 260	°C	

Mold Temperature	60.0 to 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

Recommended distributors for this material

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