

POCAN® DP C 1502 000000

Polycarbonate + PBT

LANXESS Asia/Pacific

Message:

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

General Information			
UL YellowCard	E245249-100484483		
Additive	UV stabilizer		
Features	Low warpage		
	Impact resistance, good		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.21	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (270°C/5.0 kg)	35.0	cm ³ /10min	ISO 1133
Molding Shrinkage ¹			ISO 294-4
Vertical flow direction: 250°C, 2.00mm	1.2	%	ISO 294-4
Flow direction: 250°C, 2.00mm	1.2	%	ISO 294-4
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	2100	MPa	ISO 527-2/1
Tensile Stress (Yield, 23°C)	50.0	MPa	ISO 527-2/50
Tensile Strain (Yield, 23°C)	3.8	%	ISO 527-2/50
Nominal Tensile Strain at Break (23°C)	> 40	%	ISO 527-2/50
Flexural Modulus ² (23°C)	2100	MPa	ISO 178/A
Flexural Stress ³			
3.5% strain	65.0	MPa	ISO 178/A
23°C	75.0	MPa	ISO 178
Flexural Strain at Flexural Strength ⁴ (23°C)	5.5	%	
ISO Shortname	PBT+PC, GHLMPPR, 11-020		ISO 7792
Residual Moisture Content	0.0 - 0.020	%	Karl Fisher
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	19	kJ/m ²	ISO 179/1eA
23°C	60	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	No Break		ISO 179/1eU
23°C	No Break		ISO 179/1eU
Notched Izod Impact			ISO 180/1A

-30°C	17	kJ/m ²	ISO 180/1A
23°C	60	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength			ISO 180/1U
-30°C	No Break		ISO 180/1U
23°C	No Break		ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	105	°C	ISO 75-2/B
1.8 MPa, not annealed	70.0	°C	ISO 75-2/A
Vicat Softening Temperature	125	°C	ISO 306/B120
Melting Temperature ⁵	225	°C	ISO 11357-3
Linear thermal expansion coefficient			ISO 11359-2
Flow: 23 to 55°C	1.1E-4	cm/cm/°C	ISO 11359-2
Lateral: 23 to 55°C	1.1E-4	cm/cm/°C	ISO 11359-2
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.750 mm)	HB		UL 94
Glow Wire Flammability Index (4.00 mm)	750	°C	IEC 60695-2-12
Injection	Nominal Value	Unit	Test Method
Drying Temperature - Circulation Dryer	120	°C	
Drying Time - Circulation Dryer	4.0 - 8.0	hr	
Processing (Melt) Temp	250 - 265	°C	
Mold Temperature	60.0 - 90.0	°C	
NOTE			
1.	60x60x2; WZ 70°C; 600 Bar		
2.	2.0 mm/min		
3.	2.0 mm/min		
4.	Pull Rate: 2 mm/min; 50% RH		
5.	10°C/min		

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