

POCAN® DP 4035 000000

Polybutylene Terephthalate + PET

LANXESS GmbH

Message:

PBT+PET, 30 % glass fibers, injection molding, halogen free flame retardant

General Information			
UL YellowCard	E245249-474032		
Filler / Reinforcement	Glass fiber reinforced material, 30% filler by weight		
Additive	Flame retardancy		
Features	Halogen-free		
	Flame retardancy		
Agency Ratings	EC 1907/2006 (REACH)		
Processing Method	Injection molding		
Resin ID (ISO 1043)	(PBT+PET) GF FR (30+40)		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.62	g/cm³	ISO 1183
Molding Shrinkage			ISO 2577
Vertical flow direction: 250°C, 2.00mm ¹	1.0	%	ISO 2577
Vertical flow direction: 120°C, 4 hours, 2.00mm ²	0.10	%	ISO 2577
Flow direction: 250°C, 2.00mm ³	0.30	%	ISO 2577
Flow direction: 120°C, 4 hours, 2.00mm ⁴	0.10	%	ISO 2577
Water Absorption			ISO 62
Saturated, 23°C	0.40	%	ISO 62
Equilibrium, 23°C, 50% RH	0.20	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness	180	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	9000	MPa	ISO 527-2/1
Tensile Stress (Break, 23°C)	105	MPa	ISO 527-2/5
Tensile Strain (Break, 23°C)	2.4	%	ISO 527-2/5
Flexural Modulus ⁵ (23°C)	9200	MPa	ISO 178/A
Flexural Stress ⁶ (23°C)	170	MPa	ISO 178/A
Flexural Strain at Flexural Strength ⁷ (23°C)	2.8	%	ISO 178/A
ISO Shortname	PBT+PET, GFHMR, 09-090, GF30		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	< 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	30	kJ/m ²	ISO 179/1eU
23°C	40	kJ/m ²	ISO 179/1eU
Notched Izod Impact			ISO 180/1A
-30°C	< 10	kJ/m ²	ISO 180/1A
23°C	< 10	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength			ISO 180/1U
-30°C	30	kJ/m ²	ISO 180/1U
23°C	35	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	220	°C	ISO 75-2/B
1.8 MPa, not annealed	195	°C	ISO 75-2/A
Vicat Softening Temperature	205	°C	ISO 306/B120
Ball Pressure Test (206°C)	Pass		IEC 60695-10-2
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+16	ohms	IEC 60093
Volume Resistivity (23°C)	1.0E+15	ohms·cm	IEC 60093
Dielectric Strength (23°C, 1.00 mm)	33	kV/mm	IEC 60243-1
Comparative Tracking Index (Solution A)	425	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.380 mm	V-2		UL 94
1.60 mm	V-2		UL 94
Glow Wire Flammability Index			IEC 60695-2-12
0.800 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			IEC 60695-2-13
1.50 mm	775	°C	IEC 60695-2-13
3.00 mm	775	°C	IEC 60695-2-13
Oxygen Index ⁸	24	%	ISO 4589-2
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	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.	Procedure A

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