

POCAN® T 7331 POS151 700226

Polybutylene Terephthalate + PET

LANXESS GmbH

Message:

PBT+PET, 30 % glass fibers, injection molding, improved surface finish, increased temperature peak load, UV-stabilized

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Features	Good Surface Finish		
	Good UV Resistance		
	Medium Heat Resistance		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
	1.55		
Density (23°C)	1.55	g/cm³	ISO 1183
Apparent Density	0.80	g/cm³	ISO 60
Melt Volume-Flow Rate (MVR) (260°C/5.0 kg)	30.0	cm³/10min	ISO 1133
Molding Shrinkage			ISO 2577
Across Flow : 270°C, 2.00 mm ¹	0.90	%	
Across Flow : 120°C, 4 hr, 2.00 mm ²	0.20	%	
Flow : 270°C, 2.00 mm ³	0.30	%	
Flow : 120°C, 4 hr, 2.00 mm ⁴	0.10	%	
Water Absorption			ISO 62
	0.30		
Saturation, 23°C	0.30	%	
	0.10		
Equilibrium, 23°C, 50% RH	0.10	%	
Viscosity Number (Reduced Viscosity)	91.0	ml/g	ISO 1628
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness	200	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method

Tensile Modulus			
23°C	9980	MPa	ASTM D638
23°C	10400	MPa	ISO 527-2/1
Tensile Strength			
Break, 23°C	123	MPa	ASTM D638
Break, 23°C	145	MPa	ISO 527-2/5
Tensile Elongation			
Break, 23°C	2.5	%	ASTM D638
Break, 23°C	2.8	%	ISO 527-2/5
Tensile Creep Modulus			
1 hr	10000	MPa	ISO 899-1
1000 hr	8500	MPa	
Flexural Modulus			
23°C	8550	MPa	ASTM D790
23°C ⁵	10300	MPa	ISO 178/A
Flexural Strength			
23°C	207	MPa	ASTM D790
23°C ⁶	230	MPa	ISO 178/A
Flexural Strain at Flexural Strength (23°C) ⁷	3.0	%	ISO 178/A
Halving Interval			
Electric Strength	10.2	°C	IEC 60216
Tensile Impact Strength	13.5	°C	
Tensile Strength	10.2	°C	
Temperature Index			
Electric Strength, 20000 hr	155	°C	IEC 60216
Tensile Impact Strength, 20000 hr	140	°C	
Tensile Strength, 20000 hr	155	°C	
Electrolytical Corrosion (23°C)	A 1		IEC 60426
ISO Shortname	PBT+PET, GHLMR, 09-100, GF30		ISO 7792
	0.0 to 0.020		
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	55	kJ/m²	
23°C	65	kJ/m²	
Notched Izod Impact Strength			ISO 180/1A
-40°C	< 10	kJ/m²	

-30°C	< 10	kJ/m ²	
23°C	< 10	kJ/m ²	
Unnotched Izod Impact Strength			ISO 180/1U
-30°C	55	kJ/m ²	
23°C	55	kJ/m ²	
Multi-Axial Instrumented Impact Energy (23°C)	2.10	J	ISO 6603-2
Multi-Axial Instrumented Impact Peak Force (23°C)	650	N	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	220	°C	ISO 75-2/B
1.8 MPa, Unannealed	200	°C	ISO 75-2/A
Vicat Softening Temperature	205	°C	ISO 306/B120
Ball Pressure Test (220°C)	Pass		IEC 60695-10-2
Melting Temperature ⁸	225 to 250	°C	ISO 11357-3
CLTE			ISO 11359-2
Flow : 23 to 55°C	3.0E-5	cm/cm/°C	
Transverse : 23 to 55°C	6.0E-5	cm/cm/°C	
Thermal Conductivity (23°C)	0.27	W/m/K	ISO 8302
RTI Elec	140	°C	UL 746
RTI Imp	125	°C	UL 746
RTI Str	140	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
Electric Strength (23°C, 1.00 mm)	27	kV/mm	IEC 60243-1
Relative Permittivity			IEC 60250
23°C, 100 Hz	4.00		
23°C, 1 MHz	3.80		
Comparative Tracking Index (Solution A)	250	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.800 mm	HB		
1.60 mm	HB		
Glow Wire Flammability Index (2.00 mm)	750	°C	IEC 60695-2-12
Oxygen Index ⁹	21	%	ISO 4589-2
Injection	Nominal Value	Unit	Test Method
Drying Temperature - Circulation Dryer	120	°C	
	4.0 to 8.0		
Drying Time - Circulation Dryer	4.0 to 8.0	hr	
Processing (Melt) Temp	260 to 280	°C	

Mold Temperature	80.0 to 100	°C
NOTE		
1.	60x60x2mm, 90°C MT, 600 bar	
2.	60x60x2mm	
3.	60x60x2mm, 90°C MT, 600 bar	
4.	60x60x2mm	
5.	2.0 mm/min	
6.	2.0 mm/min	
7.	2 mm/min	
8.	10°C/min	
9.	Procedure A	

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