

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 reinforced material, 30% filler by weight		
Additive	UV stabilizer		
Features	Excellent appearance		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.55	g/cm ³	ISO 1183
Apparent Density	0.80	g/cm ³	ISO 60
Melt Volume-Flow Rate (MVR) (260°C/5.0 kg)	30.0	cm ³ /10min	ISO 1133
Molding Shrinkage			ISO 294-4
Vertical flow direction: 270°C, 2.00mm ¹	0.90	%	ISO 294-4
Vertical flow direction: 120°C, 2 hours, 2.00mm ²	0.20	%	ISO 294-4
Flow direction: 270°C, 2.00mm ³	0.30	%	ISO 294-4
Flow direction: 120°C, 2 hours, 2.00mm ⁴	0.10	%	ISO 294-4
Water Absorption			ISO 62
Saturated, 23°C	0.30	%	ISO 62
Equilibrium, 23°C, 50% RH	0.10	%	ISO 62
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			
Fracture, 23°C	123	MPa	ASTM D638
Fracture, 23°C	145	MPa	ISO 527-2/5
Tensile Elongation			
Fracture, 23°C	2.5	%	ASTM D638
Fracture, 23°C	2.8	%	ISO 527-2/5
Tensile Creep Modulus			ISO 899-1
1 hr	10000	MPa	ISO 899-1
1000 hr	8500	MPa	ISO 899-1

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
Flexural Strain at Flexural Strength (23°C) ⁷	3.0	%	
Halving Interval			IEC 60216
-- ⁸	13.5	°C	IEC 60216
-- ⁹	10.2	°C	IEC 60216
-- ¹⁰	10.2	°C	IEC 60216
Temperature index ¹¹			IEC 60216
Electric Strength	155		IEC 60216
Tensile Impact Strength	140		IEC 60216
Tensile Strength	155		IEC 60216
Electrolytical Corrosion	A 1		IEC 60426
ISO Shortname	PBT+PET, GHLMR, 09-100, GF30		ISO 7792
Residual Moisture Content	0.0 - 0.020	%	Karl Fisher
Films	Nominal Value	Unit	Test Method
Film Puncture Energy ¹²	2.10	J	ISO 6603-2
Film Puncture Force ¹³	650	N	ISO 6603-2
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	55	kJ/m ²	ISO 179/1eU
23°C	65	kJ/m ²	ISO 179/1eU
Notched Izod Impact			ISO 180/1A
-40°C	< 10	kJ/m ²	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	55	kJ/m ²	ISO 180/1U
23°C	55	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	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 ¹⁴	225 - 250	°C	ISO 11357-3

Linear thermal expansion coefficient			ISO 11359-2
Flow: 23 to 55°C	3.0E-5	cm/cm/°C	ISO 11359-2
Lateral: 23 to 55°C	6.0E-5	cm/cm/°C	ISO 11359-2
Thermal Conductivity (23°C)	0.27	W/m/K	ISO 8302
RTI Elec	140	°C	UL 746
RTI Imp	125	°C	UL 746
RTI	140	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength (23°C, 1.00 mm)	27	kV/mm	IEC 60243-1
Relative Permittivity			IEC 60250
23°C, 100 Hz	4.00		IEC 60250
23°C, 1 MHz	3.80		IEC 60250
Comparative Tracking Index (Solution A)	250	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.800 mm	HB		UL 94
1.60 mm	HB		UL 94
Glow Wire Flammability Index (2.00 mm)	750	°C	IEC 60695-2-12
Oxygen Index ¹⁵	21	%	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	260 - 280	°C	
Mold Temperature	80.0 - 100	°C	
NOTE			
1.	60x60x2; MT 90°C; 600 Bar		
2.	60x60x2		
3.	60x60x2; MT 90°C; 600 Bar		
4.	60x60x2		
5.	2.0 mm/min		
6.	2.0 mm/min		
7.	Pull Rate: 2 mm/min; 50% RH		
8.	Tensile Impact Strength		
9.	Electric Strength		
10.	Tensile Strength		
11.	20000 h		
12.	23°C		
13.	23°C		
14.	10°C/min		
15.	Procedure A		

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