

POCAN® S 1506 901510

Polybutylene Terephthalate

LANXESS Corporation

Message:

PBT, injection molding grade, non-reinforced,Elastomer-modified, high impact strength,Even at low temperatures

General Information			
UL YellowCard	E245249-474057		
Features	High Impact Resistance		
	Low Temperature Impact Resistance		
Agency Ratings	EC 1907/2006 (REACH)		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.22	g/cm³	ISO 1183
Apparent Density	0.70	g/cm³	ISO 60
Melt Volume-Flow Rate (MVR) (260°C/5.0 kg)	13.0	cm³/10min	ISO 1133
Molding Shrinkage			
Across Flow : 23°C, 3.00 mm ¹	0.50	%	ISO 294-4
Across Flow : 23°C, 3.00 mm ²	1.8	%	ISO 2577
Flow : 260°C, 3.00 mm ³	1.8	%	ISO 2577
Flow : 150°C, 48 hr, 3.00 mm ⁴	0.50	%	ISO 2577
Water Absorption			ISO 62
Saturation, 23°C	0.40	%	
Equilibrium, 23°C, 50% RH	0.20	%	
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness	70.0	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	1700	MPa	ISO 527-2/1
Tensile Stress (Yield, 23°C)	35.0	MPa	ISO 527-2/50
Tensile Strain (Yield, 23°C)	4.0	%	ISO 527-2/50
Nominal Tensile Strain at Break (23°C)	> 50	%	ISO 527-2/50
Flexural Modulus ⁵ (23°C)	1600	MPa	ISO 178/A
Flexural Stress ⁶			
3.5% Strain	45.0	MPa	ISO 178/A
23°C	55.0	MPa	ISO 178
Flexural Strain at Flexural Strength ⁷ (23°C)	5.5	%	
Electrolytical Corrosion	A 1		IEC 60426
ISO Shortname	PBT-I,MHR,11-020		ISO 7792

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	25	kJ/m ²	
23°C	75	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	No Break		
23°C	No Break		
Notched Izod Impact Strength			
-30°C	20	kJ/m ²	ISO 180/1A
-30°C	No Break		ISO 180/1C
23°C	75	kJ/m ²	ISO 180/1A
23°C	No Break		ISO 180/1C
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	100	°C	ISO 75-2/B
1.8 MPa, Unannealed	55.0	°C	ISO 75-2/A
Vicat Softening Temperature	130	°C	ISO 306/B50
Ball Pressure Test (180°C)	Pass		IEC 60695-10-2
Melting Temperature ⁸	225	°C	ISO 11357-3
CLTE			ISO 11359-2
Flow : 23 to 55°C	1.3E-4	cm/cm/°C	
Transverse : 23 to 55°C	1.3E-4	cm/cm/°C	
Thermal Conductivity (23°C)	0.22	W/m/K	ISO 8302
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+15	ohms	IEC 60093
Volume Resistivity (23°C)	> 1.0E+15	ohms · cm	IEC 60093
Electric Strength (23°C, 1.00 mm)	30	kV/mm	IEC 60243-1
Relative Permittivity			IEC 60250
23°C, 100 Hz	3.20		
23°C, 1 MHz	3.10		
Dissipation Factor			IEC 60250
23°C, 100 Hz	2.0E-3		
23°C, 1 MHz	0.017		
Comparative Tracking Index			IEC 60112
Solution A	600	V	
Solution B	600	V	
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)	650	°C	IEC 60695-2-12

Oxygen Index ⁹	22	%	ISO 4589-2
Injection	Nominal Value	Unit	Test Method
Drying Temperature - Dry Air Dryer	120	°C	
Drying Time - Circulation Dryer	4.0 to 8.0	hr	
Processing (Melt) Temp	250 to 270	°C	
Mold Temperature	80.0 to 100	°C	
NOTE			
1.	150x105x3		
2.	150x150x3		
3.	150x150x3; MT 80°C; 600 Bar		
4.	150x150x3		
5.	2.0 mm/min		
6.	2.0 mm/min		
7.	Pull Rate: 2 mm/min; 50% RH		
8.	10°C/min		
9.	Procedure A		

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

