

Durethan® T 7141 00000

Polybutylene Terephthalate + PET

LANXESS GmbH

Message:

PET+PBT, 40 % glass fibers/mineral, injection molding, improved flowability, high thermal dimension stability

General Information			
Filler / Reinforcement	Glass\Mineral,40% Filler by Weight		
Features	Good Dimensional Stability		
	Good Flow		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.70	g/cm ³	ISO 1183
Apparent Density	0.90	g/cm ³	ISO 60
Melt Volume-Flow Rate (MVR) (280°C/2.16 kg)	25.0	cm ³ /10min	ISO 1133
Molding Shrinkage			ISO 2577
Across Flow : 280°C, 2.00 mm ¹	0.70	%	
Across Flow : 120°C, 4 hr, 2.00 mm ²	0.10	%	
Flow : 280°C, 2.00 mm ³	0.20	%	
Flow : 120°C, 4 hr, 2.00 mm ⁴	0.10	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	12000	MPa	ISO 527-2/1
Tensile Stress (Break, 23°C)	125	MPa	ISO 527-2/5
Tensile Strain (Break, 23°C)	1.6	%	ISO 527-2/5
Flexural Modulus ⁵ (23°C)	11000	MPa	ISO 178/A
Flexural Stress ⁶ (23°C)	175	MPa	ISO 178/A
Flexural Strain at Flexural Strength ⁷ (23°C)	2.0	%	ISO 178/A
ISO Shortname	PET+PBT, GHMR, 07-120, (GF+MD) 40		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	< 10	kJ/m ²	
23°C	< 10	kJ/m ²	
Notched Izod Impact Strength			ISO 180/1A
-30°C	< 10	kJ/m ²	
23°C	< 10	kJ/m ²	
Unnotched Izod Impact Strength (23°C)	35	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method

Heat Deflection Temperature			
0.45 MPa, Unannealed	250	°C	ISO 75-2/B
1.8 MPa, Unannealed	205	°C	ISO 75-2/A
Vicat Softening Temperature	220	°C	ISO 306/B120
Melting Temperature ⁸	260	°C	ISO 11357-3
CLTE			ISO 11359-2
Flow : 23 to 55°C	2.0E-5	cm/cm/°C	
Transverse : 23 to 55°C	5.0E-5	cm/cm/°C	
Flammability	Nominal Value	Unit	Test Method
Glow Wire Flammability Index			IEC 60695-2-12
0.800 mm	750	°C	
1.50 mm	750	°C	
3.00 mm	750	°C	
Glow Wire Ignition Temperature			IEC 60695-2-13
0.800 mm	775	°C	
1.50 mm	775	°C	
3.00 mm	775	°C	
Injection	Nominal Value	Unit	Test Method
Drying Temperature - Circulation Dryer	120	°C	
Drying Time - Circulation Dryer	4.0 to 8.0	hr	
Processing (Melt) Temp	270 to 290	°C	
Mold Temperature	100 to 130	°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.	10°C/min		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

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



WECHAT