

Vitaster® US30WT6184

Polybutylene Terephthalate

Jackdaw Polymers

Message:

Vitaster®US30WT6184 is a polybutene terephthalate (PBT) product. It is available in Europe.

Features include:

flame retardant/rated flame

heat stabilizer

General Information			
Additive	heat stabilizer		
Features	Thermal Stability		
Appearance	White		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.30	g/cm ³	ASTM D792, ISO 1183
Water Absorption (23°C, 24 hr)	0.25	%	ASTM D570, ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	56.0	MPa	ASTM D638, ISO 527-2
Tensile Elongation (Break)	> 10	%	ASTM D638, ISO 527-2
Flexural Modulus	2400	MPa	ASTM D790, ISO 178
Flexural Stress			
--	75.0	MPa	ISO 178
Fracture	75.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	10	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength ¹	No Break		ASTM D256
Charpy Notched Impact Strength ²	10.0	kJ/m ²	ASTM D256
Charpy Unnotched Impact Strength	No Break		ISO 179
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, not annealed	165	°C	ASTM D648, ISO 75-2/B
1.8 MPa, not annealed	60.0	°C	ASTM D648, ISO 75-2/A
Peak Melting Temperature	225	°C	ASTM D2117, ISO 1218
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+16	ohms	ASTM D257, IEC 60093
Dielectric Strength	50	kV/mm	ASTM D149, IEC 60243-1
Comparative Tracking Index			
Solution a	> 600	V	IEC 60112
--	> 600	V	ASTM D3638
Flammability	Nominal Value	Unit	Test Method

Flame Rating	HB	UL 94
Oxygen Index	22	% ASTM D2863, ISO 4589-2
Additional Information		
Comparative Tracking Index, ASTM D3638, Solution A: 600 V		
NOTE		
1.	Method A	
2.	Method B	

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