

Vitaster® US10BK6183

Polybutylene Terephthalate

Jackdaw Polymers

Message:

Vitaster® US10BK6183 is a Polybutylene Terephthalate (PBT) product. It is available in Europe. Primary characteristic: flame rated.

General Information			
Appearance	Black		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.29	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)	57.0	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			
--	80.0	MPa	ISO 178
Break	80.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	5.0	kJ/m ²	ISO 179
Charpy Notched Impact Strength ¹	5.00	kJ/m ²	ASTM D256
Charpy Unnotched Impact Strength ²	No Break		ASTM D256
Charpy Unnotched Impact Strength	No Break		ISO 179
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed	165	°C	ASTM D648, ISO 75-2/B
1.8 MPa, Unannealed	60.0	°C	ASTM D648, ISO 75-2/A
Melting Temperature	225	°C	ASTM D2117, ISO 1218
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+16	ohms · cm	ASTM D257, IEC 60093
Dielectric Strength	50	kV/mm	ASTM D149, IEC 60243-1
Comparative Tracking Index			
Solution A	> 600	V	IEC 60112
-- ³	> 600	V	ASTM D3638
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94
Oxygen Index	22	%	ASTM D2863, ISO 4589-2
NOTE			
1.	Method B		

2.	Method A
3.	Solution A

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