

SORVEX 500

Polybutylene Terephthalate

Sorensen Ventures

Message:

SORVEX 500 is a Polybutylene Terephthalate (PBT) product. It is available in North America. Primary characteristic: flame rated.

General Information			
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.30 to 1.32	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (235°C/2.16 kg)	32 to 38	g/10 min	ASTM D1238
Water Absorption (24 hr)	0.060	%	ASTM D570
Color b	< 2.80		
Color L	> 84.0		
Intrinsic Viscosity	0.87 to 0.90	dl/g	ASTM D2857
Carboxyl End Groups	< 25.0	meq/kg	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	85 to 90		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	49.0 to 58.8	MPa	ASTM D638
Tensile Elongation (Break)	> 50	%	ASTM D638
Flexural Modulus	2260	MPa	ASTM D790
Flexural Strength	78.5 to 88.3	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (6.35 mm)	> 44	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	155	°C	
1.8 MPa, Unannealed	60.0	°C	
Melting Temperature	223 to 227	°C	DSC
CLTE - Flow	9.0E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+13	ohms	ASTM D257
Volume Resistivity	> 1.0E+15	ohms · cm	ASTM D257
Dielectric Strength (2.00 mm)	> 20	kV/mm	ASTM D149
Dielectric Constant (60 Hz)	3.30		ASTM D150
Dissipation Factor (60 Hz)	1.0E-3		ASTM D150
Arc Resistance	120	sec	ASTM D495
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.60 mm)	HB		UL 94

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