

SORVEX 800

Polybutylene Terephthalate

Sorensen Ventures

Message:

SORVEX 800 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)	15 to 18	g/10 min	ASTM D1238
Water Absorption (24 hr)	0.060	%	ASTM D570
Color b	< 2.00		
Color L	> 85.0		
Intrinsic Viscosity	1.0 to 1.1	dl/g	ASTM D2857
Carboxyl End Groups	< 30.0	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)	> 120	%	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

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

