

Integra™ PBT-4123

PolySource, LLC - Polybutylene Terephthalate

General Information

Product Description

PBT, High Viscosity, Natural

General

Material Status	• Commercial: Active
Availability	• North America
Features	• High Viscosity
Appearance	• Natural Color
Processing Method	• Extrusion

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.30 to 1.32	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (235°C/2.16 kg)	4.0 to 7.0	g/10 min	ISO 1133
Molding Shrinkage	1.2 to 1.8	%	ISO 294-4
Viscosity Number (Reduced Viscosity)	123.0 to 130.0	ml/g	ISO 1628
Water Content	< 0.30	%	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress	7100 to 8500	psi	ISO 527-2
Tensile Strain (Break)	> 180	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Unnotched Izod Impact (73°F)	> 1.1	ft·lb/in	ISO 179
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	311	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	140	°F	ISO 75-2/A
Melting Temperature	437	°F	ISO 11357-3
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+13	ohms	IEC 60093
Volume Resistivity	1.0E+15	ohms·cm	IEC 60093
Electric Strength (0.0787 in)	> 510	V/mil	IEC 60243-1
Arc Resistance	120	sec	UL 746

Processing Information

Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	464 to 509	°F
Cylinder Zone 3 Temp.	464 to 509	°F
Cylinder Zone 5 Temp.	464 to 509	°F
Die Temperature	482 to 509	°F

