

Integra™ PBT-4123

Polybutylene Terephthalate

PolySource, LLC

Message:

PBT, High Viscosity, Natural

General Information			
Features	Viscosity, High		
Appearance	Natural color		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	1.30 - 1.32	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (235°C/2.16 kg)	4.0 - 7.0	g/10 min	ISO 1133
Molding Shrinkage	1.2 - 1.8	%	ISO 294-4
Viscosity Number (Reduced Viscosity)	123.0 - 130.0	ml/g	ISO 1628
Moisture Content		%	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress	49.0 - 58.6	MPa	ISO 527-2
Tensile Strain (Break)	> 180	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Unnotched Izod Impact (23°C)	> 59	J/m	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	155	°C	ISO 75-2/B
1.8 MPa, not annealed	60.0	°C	ISO 75-2/A
Melting Temperature	225	°C	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
Dielectric Strength (2.00 mm)	> 20	kV/mm	IEC 60243-1
Arc Resistance	120	sec	UL 746
Extrusion	Nominal Value	Unit	Test Method
Cylinder Zone 1 Temp.	240 - 265	°C	
Cylinder Zone 3 Temp.	240 - 265	°C	
Cylinder Zone 5 Temp.	240 - 265	°C	
Die Temperature	250 - 265	°C	

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