



Torayca™ TLP5040

Toray Industries, Inc. - Acrylonitrile Butadiene Styrene

General Information

Product Description

CF20%

General

Filler / Reinforcement	• Long Carbon Fiber, 20% Filler by Weight
Features	• Antistatic • High Strength • Thermally Conductive
Uses	• Musical Instruments
Processing Method	• Injection Molding
ISO Designation	• >ABS-CF20<

Properties¹

Physical	Nominal Value	Unit	Test Method
Density (73°F)	1.14	g/cm ³	ISO 1183
Molding Shrinkage ²			Internal Method
Across Flow : 0.118 in	0.20	%	
Flow : 0.118 in	0.10	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (73°F)	21800	psi	ISO 527-2
Tensile Strain (Break, 73°F)	1.5	%	ISO 527-2
Flexural Modulus (73°F)	2.18E+6	psi	ISO 178
Flexural Stress (73°F)	27600	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	5.7	ft-lb/in ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load 264 psi, Unannealed	226	°F	ISO 75-2/A
CLTE - Flow	1.7E-5	in/in/°F	ISO 11359-2
CLTE - Transverse	1.1E-5	in/in/°F	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	0.10	ohms·cm	JIS K7194
Surface Resistivity	1.0	ohms/cm ²	JIS K7194
Flammability	Nominal Value	Unit	Test Method
Flame Rating ³ (Equivalent)	HB		Internal Method

Notes

¹ Typical properties: these are not to be construed as specifications.

² 80x80x3mm

³ UL94