

Torayca™ TLP5040 ABS

TECHNICAL DATA

Product Description

CF20%

Uses

- Musical Instruments

Processing Method

- Injection Molding

ISO Designation

- >ABS-CF20<

Type

- Long carbon fiber reinforced ABS

ASTM & ISO Properties

Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.14	g/cm ³	ISO 1183
Molding Shrinkage ¹			Internal Method
Across Flow : 3.00 mm	0.20	%	
Flow : 3.00 mm	0.10	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (23°C)	150	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	1.5	%	ISO 527-2
Flexural Modulus (23°C)	15000	MPa	ISO 178
Flexural Stress (23°C)	190	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	12.0	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load 1.8 MPa, Unannealed	108	°C	ISO 75-2/A
CLTE			ISO 11359-2
Flow	3.0	cm ³ /cm/°C	
Transverse	2.0	cm ³ /cm/°C	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E-3	ohms·m	JIS K7194
Surface Resistivity	1.0	ohms/cm ²	JIS K7194
Flammability	Nominal Value	Unit	Test Method
Flame Rating ² (Equivalent)	HB		Internal Method

Notes

¹ 80x80x3mm

² UL94

