

Torayca™ TLP1060

Nylon 6

TECHNICAL DATA

Product Description

CF30%

Uses • Automotive Applications • Sporting Goods

Processing Method • Injection Molding

ISO Designation • >PA6-CF30<

Type • Long carbon fiber reinforced PA6

ASTM & ISO Properties

Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.26	g/cm ³	ISO 1183
Molding Shrinkage ¹			Internal Method
Across Flow : 3.00 mm	0.30	%	
Flow : 3.00 mm	0.10	%	
Water Absorption ² (Saturation, 23°C)	2.5	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (23°C)	280	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	1.5	%	ISO 527-2
Flexural Modulus (23°C)	21000	MPa	ISO 178
Flexural Stress (23°C)	420	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	16.5	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ISO 75-2/A
1.8 MPa, Unannealed	220	°C	
Melting Temperature	225	°C	DSC
CLTE			ISO 11359-2
Flow	2.1	cm ⁻⁵ /cm/°C	
Transverse	1.2	cm ⁻⁵ /cm/°C	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	0.010	ohms·m	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 80x80x3mm

² 50% RH

³ UL94

