

LONGLITE® PBT 3030-104

Polybutylene Terephthalate

Chang Chun Plastics Co., LTD.

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Technical Data

Product Description

LONGLITE® PBT 3030-104 is a Polybutylene Terephthalate (PBT) product filled with 30% glass fiber. It can be processed by injection molding and is available in Asia Pacific, Europe, or North America. Typical application: Electrical/Electronic Applications.

Characteristics include:

- Flame Rated
- Chemical Resistant
- Good Processability
- Good Weather Resistance
- Heat Resistant

General

Material Status	• Commercial: Active
Search for UL Yellow Card	• Chang Chun Plastics Co., LTD. • LONGLITE® PBT
Availability	• Asia Pacific • Europe • North America
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight
Features	• Fuel Resistant • Good Wear Resistance • Oil Resistant • Good Chemical Resistance • Good Weather Resistance • Solvent Resistant • Good Moldability • High Heat Resistance
Uses	• Electrical/Electronic Applications
Forms	• Pellets
Processing Method	• Injection Molding

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Specific Gravity	1.51	1.51 g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow : 0.0630 in (1.60 mm)	0.0020 to 0.0050 in/in	0.20 to 0.50 %	
Across Flow : 0.0630 in (1.60 mm)	0.014 to 0.018 in/in	1.4 to 1.8 %	
Water Absorption (24 hr)	0.040 %	0.040 %	ASTM D570
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength	17100 psi	118 MPa	ASTM D638
Tensile Elongation (Break)	3.5 %	3.5 %	ASTM D638
Flexural Modulus	1.14E+6 psi	7850 MPa	ASTM D790
Flexural Strength	26300 psi	181 MPa	ASTM D790
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact (0.250 in (6.35 mm))	1.6 ft·lb/in	83 J/m	ASTM D256
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Rockwell Hardness (M-Scale)	90	90	ASTM D785
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Unannealed	428 °F	220 °C	
264 psi (1.8 MPa), Unannealed	392 °F	200 °C	
Melting Temperature	437 °F	225 °C	DSC
CLTE - Flow	0.000017 in/in/°F	0.000030 cm/cm/°C	ASTM D696
RTI Elec (0.0280 in (0.710 mm))	167 °F	75.0 °C	UL 746
RTI Imp (0.0280 in (0.710 mm))	167 °F	75.0 °C	UL 746
RTI Str (0.0280 in (0.710 mm))	167 °F	75.0 °C	UL 746
Electrical	Nominal Value (English)	Nominal Value (SI)	Test Method
Surface Resistivity	1.0E+13 ohm	1.0E+13 ohm	ASTM D257
Volume Resistivity	1.0E+15 ohm·cm	1.0E+15 ohm·cm	ASTM D257
Dielectric Strength (0.0787 in (2.00 mm))	510 V/mil	20 kV/mm	ASTM D149
Dielectric Constant (60 Hz)	3.50	3.50	ASTM D150

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Electrical	Nominal Value (English)	Nominal Value (SI)	Test Method
Dissipation Factor (60 Hz)	0.0010	0.0010	ASTM D150
Arc Resistance	100 sec	100 sec	ASTM D495
High Amp Arc Ignition (HAI) 0.0280 in (0.710 mm)	PLC 0	PLC 0	UL 746
Hot-wire Ignition (HWI) 0.0280 in (0.710 mm)	PLC 2	PLC 2	UL 746
Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Flame Rating (0.0315 in (0.800 mm), ALL)	HB	HB	UL 94
Injection	Nominal Value (English)	Nominal Value (SI)	
Rear Temperature	464 to 518 °F	240 to 270 °C	
Middle Temperature	464 to 518 °F	240 to 270 °C	
Front Temperature	464 to 518 °F	240 to 270 °C	
Nozzle Temperature	500 to 518 °F	260 to 270 °C	
Mold Temperature	104 to 248 °F	40.0 to 120 °C	
Injection Pressure	7110 to 17100 psi	49.0 to 118 MPa	
Injection Rate	Moderate-Fast	Moderate-Fast	
Holding Pressure	4270 to 11400 psi	29.4 to 78.5 MPa	
Back Pressure	0.00 to 42.7 psi	0.00 to 0.294 MPa	
Screw Speed	60 to 120 rpm	60 to 120 rpm	

Notes¹ Typical properties: these are not to be construed as specifications.

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Where to Buy

Supplier

Chang Chun Plastics Co., LTD.

Taipei, Taiwan

Telephone: 886-2-2518-7971

Web: <http://www.ccp.com.tw/>

Distributor

AMP FRANCE

Telephone: +33-3-8920-1390

Web: <http://www.amp.fr/>

Availability: France

AMP TUNISIA

Telephone: +216-52-27-21-73

Web: <http://www.amp.fr/>

Availability: Tunisia

API-Kolon Engineering Plastics

Telephone: 847-550-5556

Web: <http://www.apikolon.com/>

Availability: Mexico, North America, South America

EnCom, Inc.

Telephone: 866-481-7700

Web: <http://www.encompolymers.com/>

Availability: North America

GAZECHIM PLASTIQUES

GAZECHIM PLASTIQUES is a Pan European distribution company. Contact GAZECHIM PLASTIQUES for availability of individual products by country.

Telephone: +33-4-67-49-55-37

Web: <http://www.gazechim.com/>

Availability: Denmark, Finland, France, Norway, Poland, Romania, Sweden, United Kingdom

PolySource

Telephone: 866-558-5300

Web: <http://www.polysource.net/>

Availability: North America

