

L.F.R.T. Long Fiber Reinforced Thermoplastic

[High stiffness high toughness
Replacing the metal by the
plastic for lightening]



LGN451

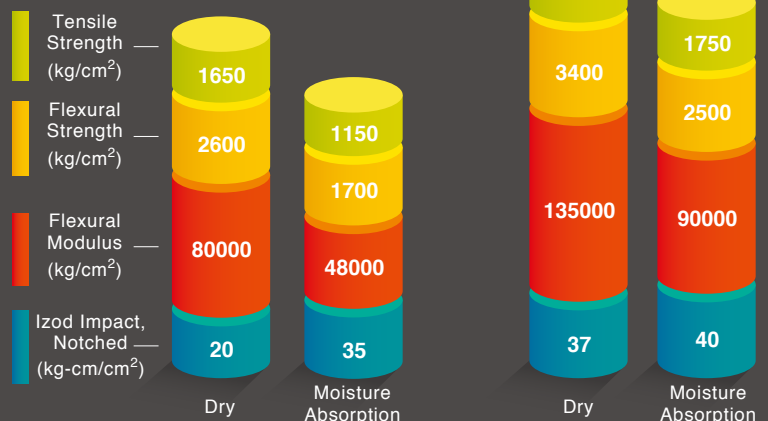
GRECO PA-6/45%
long glass fiber reinforced

PA6-45SGF

Commercial product PA-6/45%
short glass fiber reinforced

Product Features

- Including the toughness of the thermoplastic resins and the high intensity of the long glass fiber.
- Great durability of impact and size stability
- Can be applied to injection molding and extrusion process.
- Can be used to replace the thermoset resins and metal materials.
- The composition including the general and engineering grade of the thermoplastic resins.
- Can customize the different mechanical property of the long glass fiber compounding.



The data above is the result of our test lab. Simply for your reference.



大東樹脂長纖維複合材料主要產品總表 (Long Fiber Reinforced Thermoplastic Compound Data Sheets)

品名 GRADE	抗張強度 Tensile Strength Kg/cm ² (MPa)	伸長率 Elongation @break (%)	抗折強度 Flexural Strength kg/cm ² (MPa)	抗折模數 Flexural Modulus Kg/cm ² (MPa)	衝擊強度 Notched Izod Impact 23°C Kg-cm/cm ² (J/m)	比重 Specific Gravity	縮收率 Mold Shrinkage (%)	特性 & 應用 Application
1. 聚氨酯TPU (Thermoplastic Polyurethane)								高鋼性 High Rigidity 耐熱性佳 Heat Resistance 尺寸穩定性優 Dimensional Stability
LGU402	1930 (190)	2	2440 (240)	102000 (10000)	29 (290)	1.5	0.1-0.2	機械零部件 醫療器材部件 運動器材&鞋材部件 Mechanical Parts Medical equipment Sports Equipment
LGU502	2040 (200)	2	2750 (270)	150900 (14800)	30 (300)	1.6	0.1-0.2	
LGU602	2140 (210)	2	2950 (290)	158000 (15500)	31 (310)	1.7	0.05-0.2	
LGU601	2140 (210)	2	3260 (320)	183000 (18000)	25 (250)	1.7	0.05-0.2	
2. 聚醯胺PA (Polyamide, Nylon)								優越的機械強度 Excellent Strength 耐熱性佳 Heat Resistance 尺寸穩定性佳 Dimensional
LGN301	1800 (176)	2	2900 (284)	110000 (10791)	25 (245)	1.35	0.1-0.2	機械零部件 醫療器材部件 運動器材&鞋材部件 Mechanical Parts SportsEquipment
LGN401	2000 (196)	2	3000 (294)	120000 (11772)	30 (294)	1.45	0.1-0.2	
LGN501	2200 (216)	2	3500 (344)	140000 (13739)	40 (400)	1.57	0.05-0.2	
LGN402	2200 (216)	2	3100 (304)	120000 (11776)	20 (200)	1.45	0.05-0.2	
LGN502	2400 (236)	2	3600 (353)	150000 (14720)	32 (320)	1.58	0.05-0.2	
LGN403	2000 (196)	2	3200 (314)	165000 (16192)	30 (300)	1.5	0.05-0.2	
LGN503	2500 (245)	2	3750 (363)	195000 (18646)	35 (350)	1.59	0.05-0.2	
LGN603	2600 (255)	1.8	4000 (393)	200000 (19627)	37 (370)	1.7	0.05-0.2	
3. 聚丙烯PP (Polypropylene)								
LGP302	1000 (98)	2	1600 (156)	60000 (5886)	16 (156)	1.12	0.1-0.3	機械零部件 醫療器材部件 汽機車零部件 Mechanical Parts Automotive part
LGP402	1100 (107)	2	1700 (166)	85000 (8338)	25 (245)	1.2	0.1-0.3	
LGP502	1250 (122)	2	2000 (196)	110000 (10791)	30 (294)	1.33	0.1-0.3	

* 上表所列數據資料僅供參考 These property values under specific test conditions as defined in the table above are for reference only.

* 若需詳細資料, 請聯繫我司業務人員 If you have any questions or suggestions regarding either our company or any products we carry, please feel free to contact us through the following options. Tel : 886-4-23587676 #650 Fax : 886-4-23581296

