CUSTOMER DRIVEN – SUPPLIER FOCUSED



Proud to Represent Over 30 Years of Plastic Distribution & Technical Resources

800-920-8033 GP-Materials.com

PARTNER HIGHLIGHT

Polyplastics

Polyplastics is a specialized engineering plastics manufacturer and was the first manufacturer and seller of polyacetal (POM) in Japan. Today we are developing as a global manufacturer numerous engineering plastics such as **POM**, **PBT**, **PPS**, **LCP**, **PET and COC**. Utilizing our network of 32 offices and

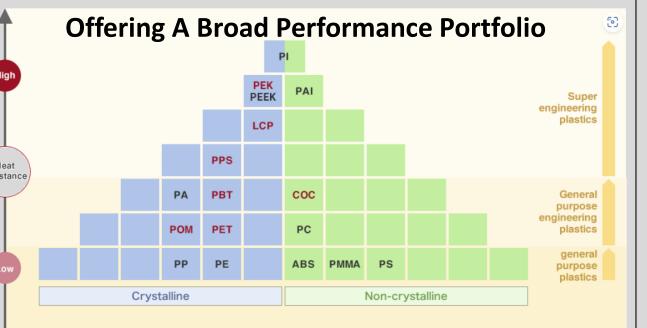


Polyplastics R&D Center at the foot of Mt. Fugi

plants in 11 countries, globally-consistent quality and quick delivery making Polyplastics one of the world's leading producers as we support your manufacturing needs globally.

DURACON® POM

The well-balanced mechanical properties of **DURACON® Polyacetal (POM)** include selflubrication with oil-resistance. This product was first used commercially to replace machinery components such as gears, screws and bearings, which were previously all made of steel. Today, it has a wide range of applications from everyday household goods such as zippers and toothbrushes to vehicle safety equipment like door locks and latches, seatbelt locking mechanisms and fuel system components. Range of formulations available.



ed and sold by Polyplastics Co., Ltd. Polyplastics is a specialized manufacturer that develops, manufac

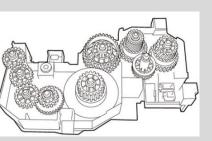
DURANEX® PBT

DURANEX[®] Polybutylene Terephthalate (PBT) is characterized by its heat resistance and outstanding electrical properties. Its excellent compatibility with various kinds of reinforcement and additive agents means that it can be given many different properties according to specific customer needs. This also allows us to develop a diverse range of grades in our product lineup. This versatile product is utilized in a wide range of areas from wire harness connectors in automobiles to all kinds of electronic components.

			High rigidity								
	M25-44	M90-44	M140-44	M270-44	M450-44	M90FC	HP25X				
	High viscosity	Standard	High flow	w High flow, Super high High flow, High Sta cycle cycle		Standard	High viscosity				
F											
	High r	igidity	Creep resistant		Weather	resistant					
	High r HP90X	igidity HP270X		M25-45	Weather M90-45	resistant M270-45	LU-02				













PLASTRON[®] LFT

Long Fiber Reinforced Thermoplastics to expand the use of resin to new fields

PLASTRON[®] LFT is resin in which long reinforcing fibers (glass fibers, cellulose and carbon fibers) of the same length are incorporated into resin pellets in the same direction. As a material it has both rigidity and high impact strength that were unattainable with conventional fiber-reinforced resins, thus enabling the use of thermoplastic resins in place of metals and fiber-reinforced plastics (FRPs) in a broader range of fields. It is also a thermoplastic resin that combines different types of long fibers in various resin matrices, enabling the optimal



Polyplastics

grade selection according to the usage structural members of cars and motorcycles. This resin can help reduce weight in a broad range of applications, from industrial products such as industrial-use pump housings and fitting parts of civil engineering pipes to various functional parts and structural members of cars and motorcycles.

PP carbon fibers	High strength, electrically conductive	<u>PP-CF40-11(L8)</u> □			
PP cellulose fibers	Eco-friendly	<u>PP-RF40-02(L7)</u> □	High impact resistance	Broad usage temperature range	High rigidity
PA6 glass fibers	Mechanical strength	<u>PA6-GF60-01(L9)</u>	Three to five times the impact	· · · · · · · · · · · · · · · · · · ·	Large volume of integrated
PA6 carbon fibers	High strength, electrically conductive	<u>PA6-CF40-01(L9)</u>	strength of short fiber-reinforced resins		fibers
PAMXD6 glass fibers	Mechanical strength	<u>PAX-GF60-02(L9)</u> □	Superior creep		
PAMXD6 carbon fibers	High strength, electrically conductive	<u>PAX-CF40-02(L9)</u> □	properties	Sliding & wear	Dimensional stability
PA9T glass fibers	Mechanical strength	PA9T-GF50-01(L9)	Superior creep properties particularly at high temperatures	Good outer appearance. Fibers have less fracture surfaces and	Low warpage, few sink marks. Low linear expansion coefficient
PA9T carbon fibers	High strength, electrically conductive	<u>PA9T-CF40-01(L9)</u> □		experience a lesser amount of wear	

DURAFIDE[®] PPS

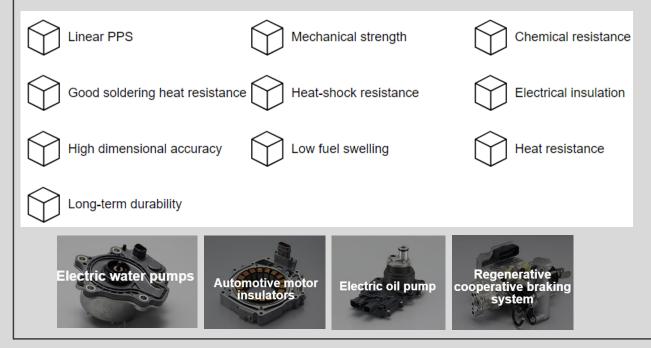
DURAFIDE[®] **Polyphenylene Sulfide (PPS)** was launched by Polyplastics as Japan's first compound production, based on supply of PPS polymer with linear molecular structure from Kureha Corporation. It keeps its superior mechanical strengths, heat resistance, chemical resistance and fireproof properties. Moreover, it boasts excellent toughness compared to traditional PPS because of its superior ability to withstand stretching and impacts. Its applications range from peripheral automotive engine parts and electrical components in hybrid and electric vehicles to smartphones and water mixing valves in baths and basins.

LAPEROS[®] LCP

THERMOPLASTIC MATERIALS

800-920-8033

LAPEROS[®] Liquid Crystal Polymer (LCP) is a leading super engineering plastic that has a thinness and fluidity unheard of in typical engineering plastics. Heat-resistant and possessing incomparable mechanical strength, LCP has the unique attribute that the thinner the product becomes, the greater its mechanical strength. Moreover, it has a low coefficient of linear thermal expansion close to that of metal. It is often used in super-miniature precision connectors for ever-smaller IT devices like tablets and smartphones.





info@gp-materials.com