

PARTNER HIGHLIGHT

TEIJIN

Resin & Plastic Processing Business Unit

Polycarbonate (PC) Resin & Alloys
Panlite® & Multilon®

Panlite® was Japan's first polycarbonate resin commercialized by Teijin. **Panlite®** is widely used in fields ranging from precision machinery to housewares, from automobiles to advanced medical equipment. **Panlite®** has many notable features such as impact resistance, heat resistance, dimensional stability, electrical properties, transparency and sanitation making it an ideal choice to meet a variety of demands.

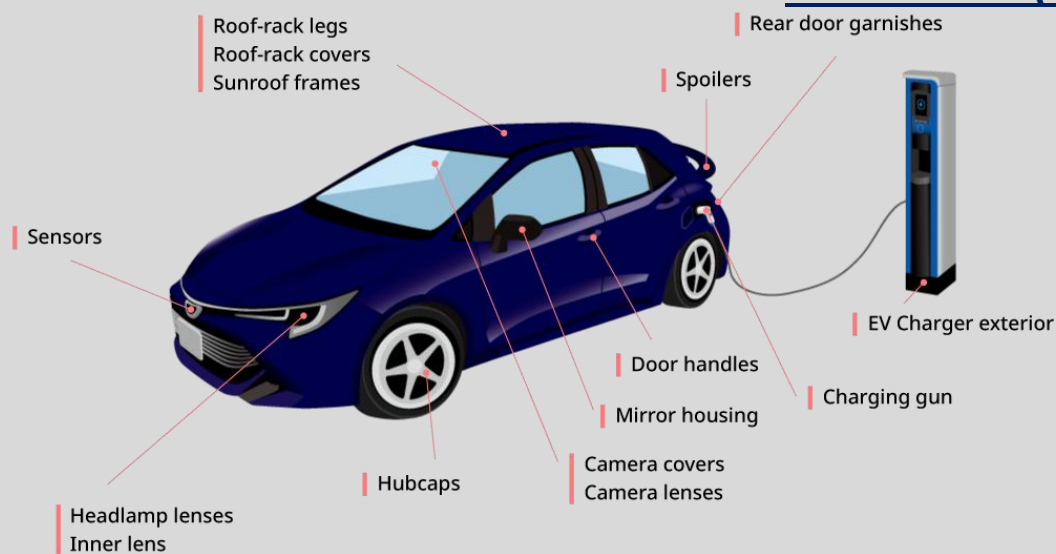


Panlite® is a thermoplastic resin having the following features, and suitable for injection molding, extrusion, blow molding, etc.

- Impact strength - Offers the highest impact strength among all plastics, excelling zinc and aluminum die castings in impact strength.
- Temperature range - Stable characteristics in wide range of temperatures.
- Electrical properties - Stable electrical property in wide range of temperature, suited for an insulating material.
- Transparency - Outstanding transparency among all plastics, suitable for optical and sheet applications.
- Dimensional stability - Excellent creep characteristics, dimensions remain almost unchanged by moisture, temperatures and duration conditions.
- Flame resistance - Outstanding flame resistance, acquired standard UL94 V-0, V-1, V-2, HB, 5VA and 5VB.

Multilon® combines the features of polycarbonate resin (PC) and acrylonitrile-butadiene-styrene (ABS) resin, and is used in a wide range of fields, including electrical/electronics, OA, automobiles, medical care, and lighting.

Automotive (Exterior & Interior)



Additional Industries & Applications:



Eyeglass lens



Electronic circuits in vehicle ECU



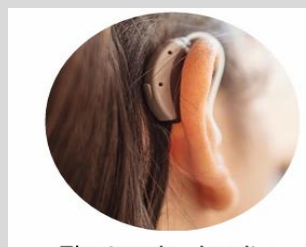
LED Lighting



Silicon wafer Container



Dialyzer



Electronic circuits in healthcare devices



For More Information:

General Polymers
Thermoplastic Materials
6841 North Rochester Rd
Rochester Hills, MI 48306
Local: 248-812-1858
info@gp-materials.com

Panlite®

Type	Grade	Characteristics	MVR* (cm³/10min)	MFR* (g/10min)	Main molding methods
Standard (ice color)	L-1225LM	Ultra low viscosity/ Mold release	24	26	Injection molding
	L-1225L LV-2225L	Ultra low viscosity/ Mold release	18	19	Injection molding
	L-1225Y LV-2225Y	Low viscosity/ Mold release	11	12	Injection molding Injection blow molding
	L-1250Y LV-2250Y	Medium viscosity/ Mold release	8	9	Injection molding Injection blow molding
	K-1300Y	High viscosity/ Mold release	2.8	3	Extrusion molding Blow molding Injection molding
Weather resistance	L-1225ZL 100	Ultra low viscosity/ Mold release	25	30	Injection molding
	L-1225Z 100M	Ultra low viscosity/ Mold release	19	20	Injection molding
	L-1225Z 100 LV-2225Z	Low viscosity/ Mold release	11~12	12~13	Injection molding
	L-1250Z 100 LV-2250Z	Medium viscosity/ Mold release	8	9	Injection molding
Optical use	AD-5503	Optical property/ Low contamination	54	70	Injection molding
Flame resistance	LN-2250Y	Flame resistance/Mold release/Transparency	11	12	Injection molding
	LN-2250Z	Flame resistance/Mold release/Transparency/ Weather resistance	11	12	Injection molding
	LN-2525ZA	Flame resistance/Mold release/Transparency/ Weather resistance	11	12	Injection molding
	LN-2520A	Flame resistance(non-bromine/non-phosphor type)/Mold release/ Transparency	18	19	Injection molding
	LN-2520HA	Flame resistance(non-bromine/non-phosphor type)/Mold release/ Transparency	11	12	Injection molding

Type	Grade	Characteristics	MVR* (cm³/10min)	MFR* (g/10min)	Main molding methods
Flame resistance	MN-4800	Flame resistance(non-bromine/non-phosphor type)/Mold release/ Transparency	7	8	Injection molding
	MN-4800Z	Flame resistance(non-bromine/non-phosphor type)/Mold release/ Transparency/Weather resistance	7	8	Injection molding
	MN-4805Z	Flame resistance(non-bromine/non-phosphor type)/Mold release/ Transparency/Weather resistance	1	1	Injection molding
Frictional wear resistance	LS-2250	Frictional wear resistance	-	-	Injection molding
High light reflection	LD-1000RM	Light reflection/ Whiteness/Mold release	-	-	Injection molding
	LN-3050RM	Light reflection/ Whiteness/Mold release/ Flame resistance (non bromine/non-phosphor type)	-	-	Injection molding
	LN-3000RM	Light reflection/ Whiteness/Mold release/ Flame resistance (Phosphor type)	-	-	Injection molding
	LN-1010RM	Light reflection/ Whiteness/Mold release/ Flame resistance	-	-	Injection molding



<https://www.teijin.com/products/resin/pc/p>

Multilon® Standard series

Series	Type	Grade
Standard	General purpose	T-3750
	Antistatic	T-3615Q
Flame Retardant	General purpose	TN-3411V
	Antistatic	TN-3616Q

Non-halogen type flame retardant series

Series	Type	Grade
Standard (Housing application)	General purpose	TN-7000
	Heat resistance	TN-7295
	High flowability	TN-7500
	Heat ray reflection	TN-7504
	Weather resistance	TN-7570Z
Mineral filler reinforced (Housing application)	General purpose	TN-3712B TN-3713B
	High rigidity	TN-3715B TN-7000F TN-7100F TN-7500F DN-3710F DN-3720F
Mineral filler reinforced (Chassis applications)	High rigidity	DN-7720D DN-7730M
Mineral/Glass fiber reinforced (Chassis applications)	High rigidity	RN-7740M

FR-PC/ABS for OA
Sabic C6000series
Covestro FR3000Series

Mineral filled FR-PC/ABS
Covestro FR302#

Automotive series

Series	Type	Grade
Standard	Standard	T-2711J
	High flowability, High heat resistance	T-2716
	High flowability, High impact resistance	T-2754
	High flowability, Low gloss	T-2760B
	High flowability, High heat resistance, Low Temperature Impact Resistance	T-2810R T-2830R T-2850R
	Plating, Low Temperature Impact Resistance	T-2854
Plating	Standard	MK-1000A
	High flowability	MK-2055
Glass fiber reinforced	GF10% reinforced, High rigidity, High heat resistance	R-2010
	GF20% reinforced, High rigidity, High heat resistance	R-2020
	GF30% reinforced, High rigidity, High heat resistance	R-2030

PC/ABS for Automotive
Covestro T-Series
T45, T65, T-85 etc...

PC/ABS for Automotive
Covestro T88 GF-Series

PC transparent grade for medical use. Unlocking Infinite Potential in Healthcare

Features

- For biocompatible grade products, an ISO 10993 biocompatibility test was conducted and passed.
- A lineup of products of grades with different moldability levels according to product shapes is provided.

Type	Grade	MVR* (cm³/10min)	Biocompatibility
Gamma-ray/ electron-beam sterilization	General	MD-1220YA	✓
		MD-1200YA	✓
	Fat emulsion resistance	MD-1270YB	✓
Steam sterilization		MD-2220TA	✓
		MD-2200TA	✓

※MVR Measurement condition : 300°C Load 1.2kg



800-920-8033

For More Information:

General Polymers
Thermoplastic Materials
6841 North Rochester Rd
Rochester Hills, MI 48306
Local: 248-812-1858
info@gp-materials.com

GP-Materials.com