



**PLASTICS**

**'TORAY'**

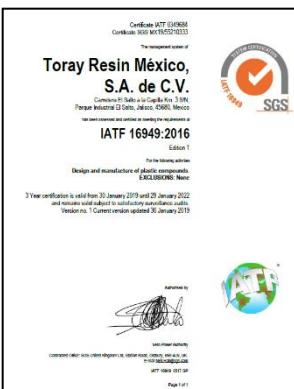
**Innovation by Chemistry**

# ABOUT TORAY RESIN MEXICO S.A. DE C.V.



## Certification of IATF

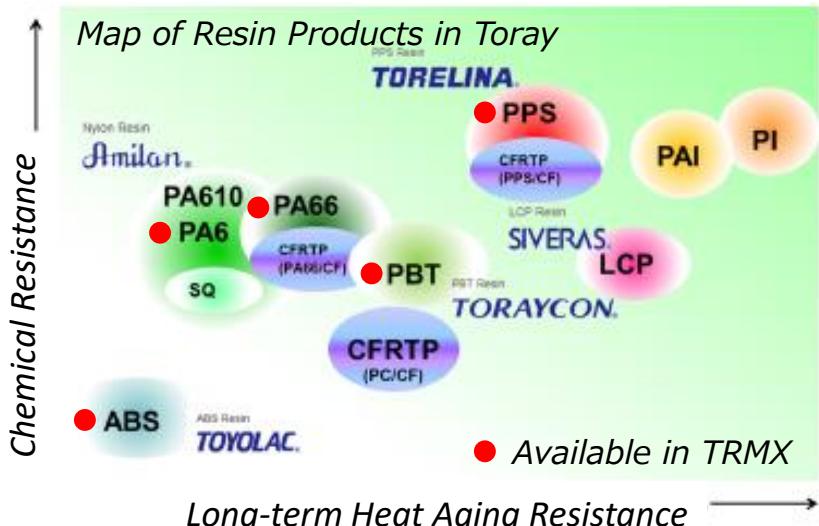
**Toray Group**



Established	: From October/2014
Operation	: From January/2015(Trial), September/2015(Mass Production)
Capacity	: 10,000 MT/Year by 2 lines (PA6, PA66, PBT)
Trading	: From Toray Resin Products (PPS, ABS, Others)
Capital	: 7 Mil US\$

- "Toray Resin Mexico S.A. DE C.V." is a subsidiary company of "Toray Industry."
- Toray's plastic business started in 1953 in Japan with Polyamide(PA) Resins for Toray's original synthetics fiber business. From here, Toray expanded to businesses for Acrylonitrile Butadiene Styrene(ABS), Polybutylene Terephthalate(PBT), Polyphenylene Sulfide(PPS), and Liquid Crystal Polymer(LCP) for use in Toray's semi-finished products and compounds businesses.
- Toray's Resins Division has expanded globally to 21 technical centers and production sites in 11 countries.
- With "Chemistry" as our core technology for innovation, we aim to continuously create innovatively, Future mobility, Life sciences, Clean water and Green energy.

# TRMX PLASTIC PRODUCTS LINEUP



## Type/Feature Lineup Please see Page 5 showing the List of Grade for each Resin.

### Amilan™

#### PA6

- High flow, High cycle
- Low temperature toughness
- Heat stability

- High rigidity
- Middle viscosity
- Glass fiber reinforced
- Low warpage

- Good appearance
- Flame Retardant
- Abrasion resistance
- Halogen, Non-halogen

### Amilan™

#### PA66

- High flow, High cycle
- Low temperature toughness
- Heat stability

- High rigidity
- Middle viscosity
- Glass fiber reinforced
- Low warpage

- Good appearance
- Flame Retardant
- Abrasion resistance
- Halogen, Non-halogen

### TORAYCON™

#### PBT

- High flow, High impact
- High cycle resistance
- Hydrolysis resistant
- Glass fiber reinforced

- Heat cycle resistance
- Good Appearance
- Flame Retardant

### TORELINA™

#### PPS

- High toughness, High strength, High flow, High filler, High thermal conductivity

- Dimensional stability
- Moist-heat resistance
- CTI rank 2
- LLC resistant

- Glass fiber reinforced
- Electrical conductivity
- Flame retardant

### TOYOLAC™

#### ABS

- Reinforced AS, Reinforced ABS
- High flow, Super high flow
- High rigidity

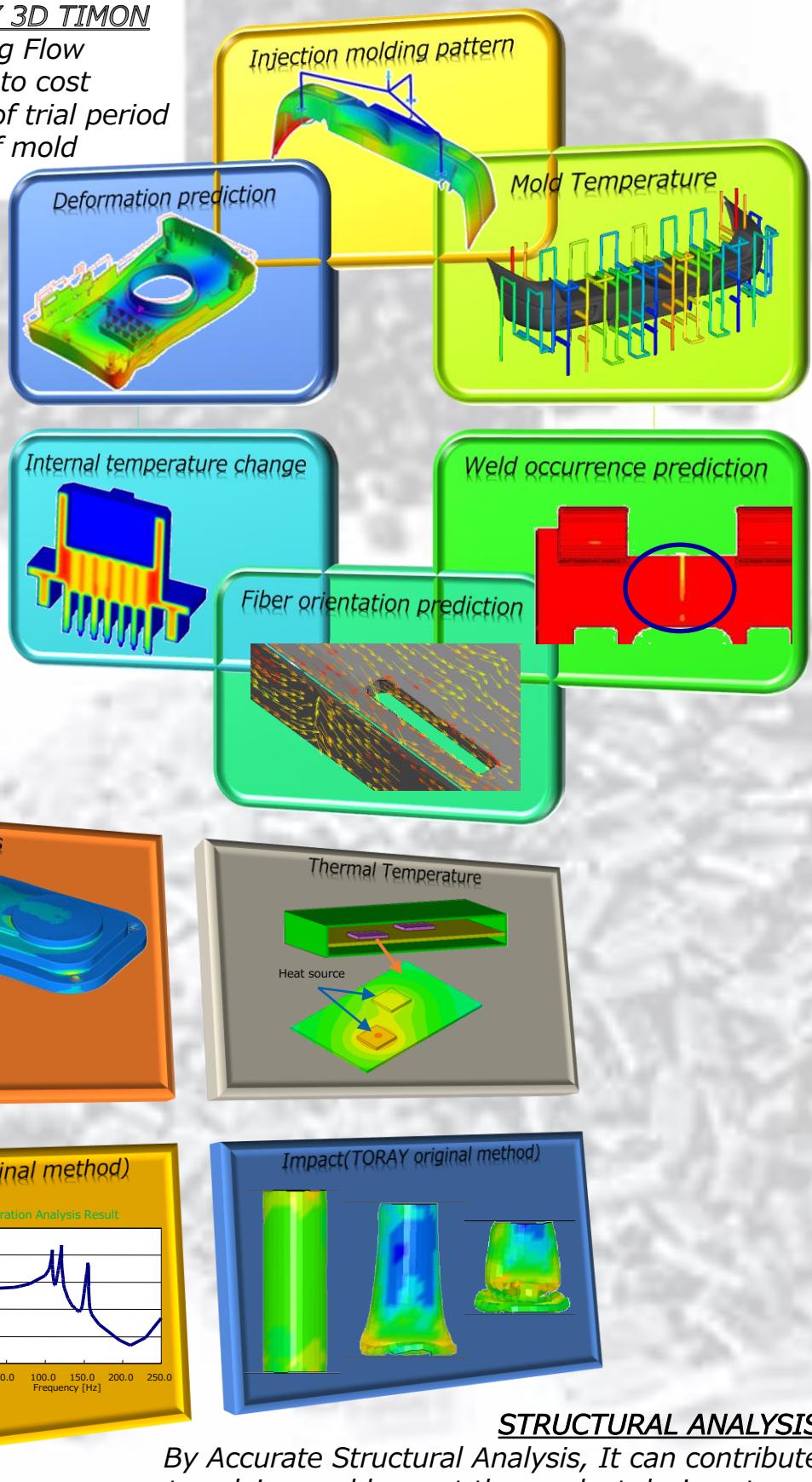
- Heat resistant
- Low warpage
- Extrusion
- Chemical resistant

- Glass fiber reinforced
- Flame Retardant
- Transparent
- High anti-static

# TECHNICAL SUPPORT BY CAE ANALYSIS

## MOLD FLOW ANALYSIS BY 3D TIMON

As the result of the Molding Flow Analysis, it can contribute to cost reduction and shortening of trial period by reducing the number of mold modifications.



## STRUCTURAL ANALYSIS

By Accurate Structural Analysis, It can contribute to solving problems at the product design stage..

# Grade List Available in TRMX

Here is showing the Resin Grades Available in TRMX. But if there is not suitable resin grade which our customer is looking for, please ask our sales team to confirm further information.

Resin	Grade	ISO	Features
PA6	CM1011G15	>PA6-GF15<	GF15% Reinforced, Standard
	CM1011G30	>PA6-GF30<	GF30% Reinforced, Standard
	CM1012G45N	>PA6-GF45<	GF45% Reinforced, Standard, High Strength
	CM1016G30	>PA6-GF30<	GF30% Reinforced, Heat Resistance
	CM1017C	>PA6<	Unreinforced, Standard
PA66	CM3001G15	>PA66-GF15<	GF15% Reinforced, Standard
	CM3001G30	>PA66-GF30<	GF30% Reinforced, Standard
	CM3001G33	>PA66-GF33<	GF33% Reinforced, Standard
	CM3004G30	>PA66-GF30<	GF30% Reinforced, Flame Retardant
	CM3006B	>PA66<	Unreinforced, Heat Resistance
	CM3006G30	>PA66-GF30<	GF30% Reinforced, Heat Resistance
	CM3006G33	>PA66-GF33<	GF33% Reinforced, Heat Resistance
	CM3006G50	>PA66-GF50<	GF50% Reinforced, Heat Resistance
PBT	1101G30	>PBT-GF30<	GF30% Reinforced, Standard
	1101GM45	>PBT+PET-GF45<	GF45% Reinforced, Good Appearance
	1101GM55	>PBT+PET-GF55<	GF55% Reinforced, Good Appearance
	1101GX50	>PBT+PET-GF30<	GF30% Reinforced, Good Appearance
	1201G15	>PBT-GF15<	GF15% Reinforced, Standard
	1401X06	>PBT<	Unreinforced, Standard
	7151G30	>PBT+SAN-GF30<	GF30% Reinforced, Low Warpage, Low Specific Gravity
	7151GX02	>PBT+PET+SAN-GF30<	GF30% Reinforced, Low Warpage, Good Appearance
	7157GA30	>PBT+PET+ABS-GF30<	GF30% Reinforced, Low Warpage, High Toughness
	VX10	>PBT+ABS<	Unreinforced, High Impact, High Toughness
PPS	A503-X05	>PPS-GF30<	GF30% Reinforced, Standard
	A504-X90	>PPS-GF40<	GF40% Reinforced, Standard
	A504-CX1	>PPS-GF40<	GF40% Reinforced, LLC resistance
	A604	>PPS-GF40<	GF40% Reinforced, Low impurity, Toughness
	A673MTB	>PPS-I-GF+MD50<	GF30% High toughness, Moist-heat resistance
	A310MB7	>PPS-(GF+MD)70<	Low warpage
	A675GS1B	>PPS-I-(GF+MD)50<	Heat-cycling resistance, High weld strength
	A575W20B	>PPS-I-(GF+MD)50<	Heat-cycling resistance, Low warpage, High flow
	A602LX01	>PPS-GF20<	Laser weldability
	A610MX03	>PPS-(GF+MD)65<	High Toughness
ABS	A680M	>PPS-MD60<	Good mirror surface
	300-325	>ABS<	Super high impact
	930-355	>MABS<	Transparent, High impact
	950-X01	>MABS<	Transparent, Chemical resistant
	910-X01	>MABS<	Transparent, Scratch resistant
	470Y-X68	>ABS<	Abrasion resistant, High sliding, Super high heat resistant
	250-SG5	>ABS<	High gloss, High flow
	TM335-GM2	>ABS<	Painting, High flow
	335-X01	>ABS<	Plating, Good appearance
	100G-23R	>ABS-(GF+GS)23<	(GF+GS)23%, Low warpage
	PX10-X06	>PC+ABS<	ABS/PC Alloy



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