

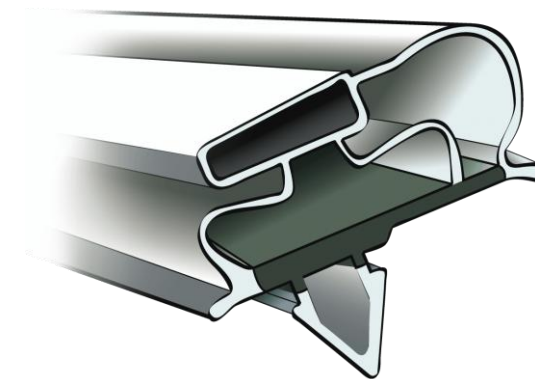
The versatile Thermoplastic elastomer

TEFABLOC TPE range includes TPE-S, TPO (blend and reactor types), TPV, TPE-E.

The proposed technologies form the largest range of thermoplastic elastomers providing specific and suitable solutions in terms of cost and features: Elastic recovery, ageing, flexibility at low temperature, fire resistance, chemical compatibility, appearance, colour, food contact, medical etc...

mitsubishi chemical performance polymers aims to take a leading position in specialized markets for highly specific products designed for TPEs, such like seals and gaskets (automotive glazing systems, building windows, water drainage systems, fridge, dryers, washing machine, electrical equipment ...), airbag covers, insulation of automotive wiring looms and special cables, soft touch handle and choc protection ...

Design advantages



TPE technology: TEFABLOC® product range is made of TPE (thermoplastic elastomers) solutions. Alternatives to EPDM cross-linked rubber types, these products show an excellent behaviour at very low temperature and a strong creep behaviour at heat. Thanks to a high elastic recovery they are particularly adapted for dynamic profiles and seals. TEFABLOC® formulations may be co-extruded to manufacture multi-material profiles with several hardnesses, It is also compatible with PE or PP that may be used for stiffer parts of the profiles like feet.

This chemical compatibility makes also possible the heat corner welding. In addition, it offers a significant economical advantage because high performance formulations may be only present where they are really necessary.

The TEFABLOC® is also totally inert with organic glazing (polycarbonate-PC or acrylic-PMMA). So it is recommended for seals in contact with these materials.

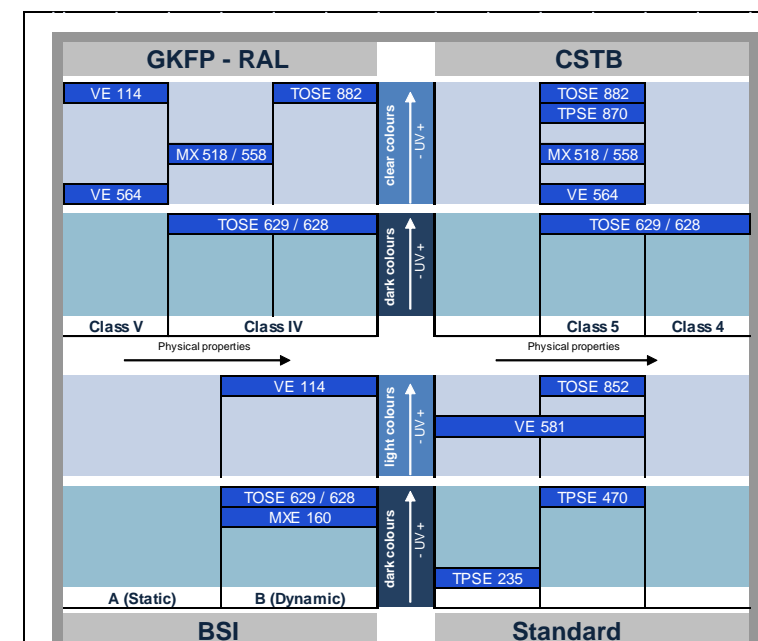


Product range for extrusion process

		UV RESISTANCE	HARDNESS	MULTI MATERIAL	ELASTIC RECOVERY	COLOURING	SHADE	FOOD CONTACT	Typical use	
		(1)	(2)	(3)	(4)					
Industrial applications	Standard	TOSE 235	✓	70A<>45D	PP/PE	✓	Black	Opaque	No	Indoor or outdoor without UV exposure (black only). Limited service temperature.
	Intermediate	TPSE 470	✓✓	50A<>95A	PP/PE	✓✓	Black	Opaque	No	Outdoor, black colours, multi-purpose
	High performance	TOSE 629	✓✓✓	60A<>70A	PP/PE	✓✓✓	Dark colours	Opaque	No	Outdoor, sealing function with excellent recovery at elevate temperature
Design - Food contact	Intermediate	TOSE 852	✓✓✓	60A<>70A	PP/PE	✓✓	All colours	Opaque	✓	Outdoor, all colours, multi-purpose
	High performance	TO.. 828	✓✓✓	30A<>75A	PP/PE	✓✓✓	Bright colours	Opaque	✓	Outdoor, all colours, sealing function at elevate service temperature

(1) Other hardness on request
 (2) According to service temperature
 (3) Transparent and translucent on request
 (4) On request

Special materials for window seals



Next to TEFABLOC® TPE, MCPP range also includes PVC technology. MARVYLEX® and TEFANYL® make this family. Pending to formulations, seals will have a static or dynamic usage. Thanks to their compatibility with rigid PVC (PVC-U), they are recommended for PVC glass-lath co-extrusion, but for dynamic seals, they may be also converted by post-co-extrusion process, together with the PVC profile. Both technologies provide grades offering excellent weather resistance, with a complete range to fulfill CSTB, GKFP (SKZ), and BSI standards.

Disclaimer: The information contained herein is accurate to the best of our knowledge, but since the circumstances and conditions in which the material may be used are beyond our control, we do not accept liability for any loss or damage that may occur nor do we offer any warranty of immunity against patent infringement. The values indicated in the tables only describe typical properties but do not constitute specification limits.

ABOUT US

The Mitsubishi Chemical Performance Polymers business (MCP) is one of the top growing businesses at Mitsubishi Chemical Group. MCP delivers innovative solutions based on consistent chemistry based technology, polymer design, and thermoplastic compounding expertise.

CUSTOMER ORIENTED

Our commitment is to be your global specialty partner by developing and delivering solutions which satisfy a variety of needs.

GLOBAL

Worldwide, we deliver high quality, thermoplastic resins for automotive applications. These applications include safety parts, seals, under the hood, interior and exterior components. As a reliable partner, we also provide global thermoplastic solutions for consumer goods, packaging, medical, building industries, wire and cable, and other industrial applications.

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Extrusion process series

