



Thermoplastic Elastomer for 3D printing – FDM process

INTRODUCTION

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...

MCPP - 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 ...

SOLUTIONS FOR 3D PRINTING

TEFABLOC™ product range is incorporating new formulations for 3D printing additive process, allowing the manufacturing of soft parts including seals, grip, joints, etc.

According to needs, these newly developed TEFABLOC™ offers chemical compatibility with other polymers for multi-material designs.

Properties	Unit	Method	Tefabloc		
		GRADE >	SE6300C	SE7300C	SE9300C
MFR (230°C – 2.12 N)	g/10 min	ISO1133	150<	150<	150<
Density	g/cm3	ISO1183 method A	0.89	0.89	0.89
Durometer	ShA	ISO7619 15 seconds	60	70	90
Flexural Modulus	MPa	ISO178	NA	NA	NA
Tensile strength at break	MPa	ISO37 Type-1A 500 mm/min	3	3	8
Tensile elongation at break	%	ISO37 Type-1A 500 mm/min	440	250	340
Shade	-	-	Transl.	Transl.	Transl.

Remarks:

Values only describe typical properties and may not be considered as specifications.

Not all grades are available in all regions, please contact your local sales representative.

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 our chemistry technology platforms, with expertise in polymer design, and thermoplastic compounding, to offer tailor made solutions.

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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