

Product Comparison

PROSPECTOR®

Technical Data

Product Description

tefabloc®
TO 113

The tefabloc® engineering plastics make use of the elastomeric properties of styrenic bloc co-polymer (SBS) and of hydrogenated styrenic bloc co-polymers (SEBS). The specific structure of tefabloc® combines the physical properties of a vulcanised rubber with the advantages of a thermoplastic. Their specific compositions give these TPEs a very good resistance to oxidation, detergents, acids and ozone and a very good weatherability.

tefabloc® performs surprisingly well at low temperatures by keeping its mechanical and flexibility properties, where many other plastics become hard and brittle.

The product range of tefabloc® is one of the widest found, with very low hardness starting from 5 Shore A, the flexible grades from 40 to 80 Shore A and the semi-rigids up to 60 Shore D. We offer colour-matched compounds as well natural grades that can be easily coloured with masterbatch.

tefabloc®
TO 132

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tefabloc®
TO 133

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tefabloc® TP SD 310 40A	tefabloc® TP SD 310 40A is a Thermoplastic Elastomer (TPE) material. It is available in Europe or North America for injection molding.				
	Important attributes of tefabloc® TP SD 310 40A are: • RoHS Compliant • Chemical Resistant • Food Contact Acceptable • Good Aesthetics • Good UV Resistance				
	Typical applications include: • Consumer Goods • Outdoor Applications • Sealing Applications • Sporting Goods				
tefabloc® TP SD 333 40A	tefabloc® TP SD 333 40A is a Thermoplastic Elastomer (TPE) material. It is available in Europe or North America for injection molding.				
	Important attributes of tefabloc® TP SD 333 40A are: • RoHS Compliant • Chemical Resistant • Food Contact Acceptable • Good Aesthetics • Good UV Resistance				
	Typical applications include: • Consumer Goods • Outdoor Applications • Sealing Applications • Sporting Goods				
General	tefabloc® TO 113	tefabloc® TO 132	tefabloc® TO 133	tefabloc® TP SD 310 40A	tefabloc® TP SD 333 40A
Manufacturer / Supplier	• Mitsubishi Chemical Performance Polymers, Inc.	• Mitsubishi Chemical Performance Polymers, Inc.	• Mitsubishi Chemical Performance Polymers, Inc.	• Mitsubishi Chemical Performance Polymers, Inc.	• Mitsubishi Chemical Performance Polymers, Inc.
Generic Symbol	• TPE	• TPE	• TPE	• TPE	• TPE
Material Status	• Commercial: Active	• Commercial: Active	• Commercial: Active	• Commercial: Active	• Commercial: Active
Search for UL Yellow Card	• Mitsubishi Chemical Performance Polymers, Inc.	• Mitsubishi Chemical Performance Polymers, Inc.	• Mitsubishi Chemical Performance Polymers, Inc.	• Mitsubishi Chemical Performance Polymers, Inc.	• Mitsubishi Chemical Performance Polymers, Inc.
Availability	• Europe • North America	• Europe • North America	• Europe • North America	• Europe • North America	• Europe • North America



General	tefabloc® TO 113	tefabloc® TO 132	tefabloc® TO 133	tefabloc® TP SD 310 40A	tefabloc® TP SD 333 40A
Features	• Acid Resistant • Base Resistant • Detergent Resistant • Good Chemical Resistance • Good Thermal Stability • Good Weather Resistance • Oxidation Resistant • Ozone Resistant	• Acid Resistant • Base Resistant • Detergent Resistant • Food Contact Acceptable • Good Chemical Resistance • Good Thermal Stability • Good Weather Resistance • Low Density • Oxidation Resistant • Ozone Resistant	• Acid Resistant • Base Resistant • Detergent Resistant • Food Contact Acceptable • Good Chemical Resistance • Good Color Stability • Good Thermal Stability • Good Weather Resistance • Oxidation Resistant • Ozone Resistant	• Acid Resistant • Base Resistant • Detergent Resistant • Food Contact Acceptable • Good Chemical Resistance • Good Surface Finish • Good UV Resistance • High Flow	• Acid Resistant • Base Resistant • Detergent Resistant • Food Contact Acceptable • Good Chemical Resistance • Good Surface Finish • Good UV Resistance • High Flow
Uses	--	--	--	• Outdoor Applications • Seals • Sporting Goods • Toys	• Outdoor Applications • Seals • Sporting Goods • Toys
Agency Ratings	--	--	--	• EN 71-3 • EU 2000/53/EC	• EN 71-3 • EU 2000/53/EC
RoHS Compliance	--	--	--	• RoHS Compliant	• RoHS Compliant
Appearance	--	• Translucent	• Opaque	• Opaque	• Opaque
Forms	--	--	--	• Granules	• Granules
Processing Method	• Injection Molding	• Injection Molding	• Injection Molding	• Injection Molding	• Injection Molding
Resin ID (ISO 1043)	--	--	--	• >PP<	• >PP<

Physical	tefabloc® TO 113	tefabloc® TO 132	tefabloc® TO 133	tefabloc® TP SD 310 40A	tefabloc® TP SD 333 40A	Unit	Test Method
Density	--	--	--	1.04	1.15	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	--	--	--	32	16	g/10 min	ISO 1133
Mechanical	tefabloc® TO 113	tefabloc® TO 132	tefabloc® TO 133	tefabloc® TP SD 310 40A	tefabloc® TP SD 333 40A	Unit	Test Method
Abrasion	--	--	--	390	--	mm³	DIN 53516
Elastomers	tefabloc® TO 113	tefabloc® TO 132	tefabloc® TO 133	tefabloc® TP SD 310 40A	tefabloc® TP SD 333 40A	Unit	Test Method
Tensile Stress							ISO 37
20% Strain	--	--	--	87.0	87.0	psi	
100% Strain	--	--	--	160	145	psi	
Tensile Stress (Break)	--	--	--	435	348	psi	ISO 37



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Elastomers	tefabloc® TO 113	tefabloc® TO 132	tefabloc® TO 133	tefabloc® TP SD 310 40A	tefabloc® TP SD 333 40A	Unit	Test Method
Tensile Elongation (Break)	--	--	--	760	900	%	ISO 37
Tear Strength ²	--	--	--	91	80	lbf/in	ISO 34-1
Compression Set ³ (73°F, 72 hr)	--	--	--	25	25	%	ISO 815
Hardness	tefabloc® TO 113	tefabloc® TO 132	tefabloc® TO 133	tefabloc® TP SD 310 40A	tefabloc® TP SD 333 40A	Unit	Test Method
Shore Hardness							ISO 868
Shore A	23	30	35	--	--		
Shore A, 15 sec, Injection Molded	--	--	--	40	39		
Shore D	35	43	51	--	--		
Thermal	tefabloc® TO 113	tefabloc® TO 132	tefabloc® TO 133	tefabloc® TP SD 310 40A	tefabloc® TP SD 333 40A	Unit	
Service Temperature	-76 to 158	-76 to 158	-76 to 158	-58 to 158	-58 to 212	°F	
Aging	tefabloc® TO 113	tefabloc® TO 132	tefabloc® TO 133	tefabloc® TP SD 310 40A	tefabloc® TP SD 333 40A	Unit	
Resistance to Aging	--	--	--	257	230	°F	
Injection	tefabloc® TO 113	tefabloc® TO 132	tefabloc® TO 133	tefabloc® TP SD 310 40A	tefabloc® TP SD 333 40A	Unit	
Rear Temperature	--	--	--	320	320	°F	
Middle Temperature	--	--	--	338	338	°F	
Front Temperature	--	--	--	356	356	°F	
Injection Rate	--	--	--	Moderate	Moderate		
Screw Compression Ratio	--	--	--	2.5:1.0 to 3.0:1.0	2.5:1.0 to 3.0:1.0		
Injection Notes							
tefabloc® TP SD 310 40A		Screw Speed: Medium					
tefabloc® TP SD 333 40A		Screw Speed: Medium					

Notes

¹ Typical properties: these are not to be construed as specifications.

² Method Ba, Angle (Unnicked)

³ Type B



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