

tefabloc® TP SD 310 40A

Thermoplastic Elastomer

Mitsubishi Chemical Performance Polymers, Inc.

PROSPECTOR®

Technical Data

Product Description

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

General

Material Status	• Commercial: Active
Search for UL Yellow Card	• Mitsubishi Chemical Performance Polymers, Inc.
Availability	• Europe • North America
Features	• Acid Resistant • Food Contact Acceptable • Good UV Resistance • Base Resistant • Good Chemical Resistance • High Flow • Detergent Resistant • Good Surface Finish
Uses	• Outdoor Applications • Sporting Goods • Seals • Toys
Agency Ratings	• EN 71-3 • EU 2000/53/EC
RoHS Compliance	• RoHS Compliant
Appearance	• Opaque
Forms	• Granules
Processing Method	• Injection Molding
Resin ID (ISO 1043)	• >PP<

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.04 g/cm ³	1.04 g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	32 g/10 min	32 g/10 min	ISO 1133
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Abrasion	390 mm ³	390 mm ³	DIN 53516
Elastomers	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Stress			ISO 37
20% Strain	87.0 psi	0.600 MPa	
100% Strain	160 psi	1.10 MPa	
Tensile Stress (Break)	435 psi	3.00 MPa	ISO 37
Tensile Elongation (Break)	760 %	760 %	ISO 37
Tear Strength ²	91 lbf/in	16 kN/m	ISO 34-1
Compression Set ³ (73°F (23°C), 72 hr)	25 %	25 %	ISO 815
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Shore Hardness			ISO 868
Shore A, 15 sec, Injection Molded	40	40	
Thermal	Nominal Value (English)	Nominal Value (SI)	
Service Temperature	-58 to 158 °F	-50 to 70 °C	
Aging	Nominal Value (English)	Nominal Value (SI)	
Resistance to Aging	257 °F	125 °C	



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Injection	Nominal Value (English)	Nominal Value (SI)
Rear Temperature	320 °F	160 °C
Middle Temperature	338 °F	170 °C
Front Temperature	356 °F	180 °C
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

Screw Speed: Medium

Notes¹ Typical properties: these are not to be construed as specifications.² Method Ba, Angle (Unnicked)³ Type B

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