

tefabloc® TP SD 310 50A

Thermoplastic Elastomer

Mitsubishi Chemical Performance Polymers, Inc.

Message:

tefabloc®TP SD 310 50A is a thermoplastic elastomer (TPE) material. This product is available in North America or Europe. The processing method is injection molding.

tefabloc®The main features of TP SD 310 50A are:

- ROHS certification
- chemical resistance
- high liquidity
- accessible food
- Good UV resistance

Typical application areas include:

- outdoor applications
- Sealing applications
- Consumer goods
- Sporting goods

General Information			
Features	Good UV resistance		
	High liquidity		
	Good chemical resistance		
	alkali resistance		
	acid resistance		
	Detergent resistance		
	Compliance of Food Exposure		
	Excellent appearance		
Uses	Seals		
	Outdoor application		
	Sporting goods		
	Toys		
Agency Ratings	EN 71-3		
	EU 2000/53/EC		
RoHS Compliance	RoHS compliance		
Appearance	Opacity		
Forms	Particles		
Processing Method	Injection molding		
Resin ID (ISO 1043)	>PP		
Physical	Nominal Value	Unit	Test Method
Density	1.04	g/cm ³	ISO 1183

Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	35	g/10 min	ISO 1133
Molding Shrinkage			Internal method
Vertical flow direction	1.6	%	Internal method
Flow direction	0.80	%	Internal method
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 15 sec, Injection Molded)	50		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Abrasion	> 300	mm ³	DIN 53516
Resistance to Aging	125	°C	
Service Temperature	-50 - 70	°C	
Color Fastness ¹	4/5		ISO 105-A02
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ISO 37
20% strain	0.900	MPa	ISO 37
100% strain	1.50	MPa	ISO 37
Tensile Stress (Break)	3.40	MPa	ISO 37
Tensile Elongation (Break)	700	%	ISO 37
Tear Strength ²	19	kN/m	ISO 34-1
Compression Set ³			ISO 815
23°C, 22 hr	22	%	ISO 815
50°C, 22 hr ⁴	26	%	ISO 815
50°C, 22 hr ⁵	39	%	ISO 815
70°C, 22 hr ⁶	36	%	ISO 815
70°C, 22 hr ⁷	52	%	ISO 815
Injection	Nominal Value	Unit	
Rear Temperature	160	°C	
Middle Temperature	170	°C	
Front Temperature	180	°C	
Injection Rate	Moderate		
Screw Compression Ratio	2.5:1.0 - 3.0:1.0		
Injection instructions			
Screw Speed: Medium			
NOTE			
1.	1000 hr		
2.	Method B, right-angle specimen (without cut)		
3.	Type B		
4.	relaxation 50°C		
5.	relaxation 23°C		
6.	relaxation 70°C		
7.	relaxation 23°C		

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