

ProvaMed® TPE 1180

Thermoplastic Elastomer

ACTEGA GmbH

Message:

ProvaMed® TPE 1180 is a Thermoplastic Elastomer (TPE) material. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America for injection molding.

Important attributes of ProvaMed® TPE 1180 are:

Sterilizable

Biocompatible

Typical application of ProvaMed® TPE 1180: Medical/Healthcare

General Information			
Features	Biocompatible		
	Ethylene Oxide Sterilizable		
	Radiation Sterilizable		
	Steam Sterilizable		
Uses	Medical/Healthcare Applications		
Agency Ratings	ISO 10993		
Appearance	Colors Available		
	Translucent		
Forms	Granules		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.890	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/2.16 kg	18	g/10 min	
190°C/5.0 kg	75	g/10 min	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore A, 5 sec	80		
Shore D, 5 sec	21		
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain)	4.10	MPa	DIN 53504
Tensile Stress (Yield)	9.00	MPa	DIN 53504
Tensile Elongation (Break)	990	%	DIN 53504
Compression Set			ISO 815
23°C, 22 hr	37	%	
70°C, 22 hr	60	%	
100°C, 22 hr	76	%	
Thermal	Nominal Value	Unit	Test Method

Glass Transition Temperature ¹	-53.0	°C	DSC
Melting Temperature (DSC) ²	159	°C	DSC
Injection	Nominal Value	Unit	
Hopper Temperature	20.0 to 30.0	°C	
Rear Temperature	140 to 230	°C	
Middle Temperature	140 to 230	°C	
Front Temperature	140 to 230	°C	
Nozzle Temperature	190 to 230	°C	
Mold Temperature	20.0 to 60.0	°C	
NOTE			

1. Heating rate 10 K/minMelting peak from second heating cycle

2. Heating rate 10 K/minMelting peak from second heating cycle

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Recommended distributors for this material

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