

ProvaMed® TPE 1140

Thermoplastic Elastomer

ACTEGA GmbH

Message:

ProvaMed® TPE 1140 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 1140 are:

Sterilizable

Biocompatible

Typical application of ProvaMed® TPE 1140: Medical/Healthcare

General Information			
Features	Biocompatible		
	Ethylene Oxide Sterilizable		
	Radiation Sterilizable		
Uses	Medical/Healthcare Applications		
Agency Ratings	ISO 10993		
Appearance	Clear/Transparent		
	Colors Available		
Forms	Granules		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/2.16 kg	11	g/10 min	
190°C/5.0 kg	39	g/10 min	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 5 sec)	40		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain)	1.10	MPa	DIN 53504
Tensile Stress (Yield)	3.80	MPa	DIN 53504
Tensile Elongation (Break)	930	%	DIN 53504
Compression Set			ISO 815
23°C, 22 hr	18	%	
70°C, 22 hr	94	%	
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature ¹	-55.0	°C	DSC
Melting Temperature (DSC) ²	156	°C	DSC
Injection	Nominal Value	Unit	
Hopper Temperature	20.0 to 30.0	°C	

Rear Temperature	140 to 210	°C
Middle Temperature	140 to 210	°C
Front Temperature	140 to 210	°C
Nozzle Temperature	180 to 220	°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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