

ProvaMed® TPE 1158

Thermoplastic Elastomer

ACTEGA GmbH

Message:

ProvaMed® TPE 1158 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 1158 are:

Sterilizable

Biocompatible

Typical application of ProvaMed® TPE 1158: Medical/Healthcare

General Information			
Features	Biocompatible		
	Ethylene Oxide Sterilizable		
	Radiation Sterilizable		
	Steam Sterilizable		
Uses	Medical/Healthcare Applications		
Agency Ratings	ISO 10993		
	USP Class VI		
Appearance	Colors Available		
	Opaque		
Forms	Granules		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.00	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/5.0 kg)	35	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore A, 5 sec	58		
Shore D, 5 sec	12		
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain)	2.00	MPa	DIN 53504
Tensile Stress (Yield)	5.40	MPa	DIN 53504
Tensile Elongation (Break)	1100	%	DIN 53504
Compression Set			ISO 815
23°C, 22 hr	23	%	
70°C, 22 hr	89	%	
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature ¹	-57.0	°C	DSC

Melting Temperature (DSC) ²	151	°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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