

ProvaMed® TPE 1120

Thermoplastic Elastomer

ACTEGA GmbH

Message:

ProvaMed® TPE 1120 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 1120 are:

Sterilizable

Biocompatible

Typical application of ProvaMed® TPE 1120: Medical/Healthcare

General Information			
Features	Biocompatible		
	Ethylene Oxide Sterilizable		
	Radiation 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	0.900	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (160°C/2.16 kg)	12	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 5 sec)	20		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain)	0.400	MPa	DIN 53504
Tensile Stress (Yield)	1.30	MPa	DIN 53504
Tensile Elongation (Break)	900	%	DIN 53504
Compression Set (23°C, 22 hr)	17	%	ISO 815
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature ¹	-65.0	°C	DSC
Melting Temperature (DSC) ²	91.0	°C	DSC
Injection	Nominal Value	Unit	
Hopper Temperature	20.0 to 30.0	°C	
Rear Temperature	140 to 200	°C	
Middle Temperature	140 to 200	°C	
Front Temperature	140 to 200	°C	

Nozzle Temperature	170 to 210	°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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