

ProvaMed® TPE 1070

Thermoplastic Elastomer

ACTEGA GmbH

Message:

ProvaMed® TPE 1070 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 1070 are:

Sterilizable

Biocompatible

Typical application of ProvaMed® TPE 1070: Medical/Healthcare

General Information			
Features	Biocompatible		
	Ethylene Oxide Sterilizable		
	Radiation Sterilizable		
	Steam 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/5.0 kg	7.0	g/10 min	
230°C/2.16 kg	8.0	g/10 min	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore A, 5 sec	70		
Shore D, 5 sec	18		
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain)	2.40	MPa	DIN 53504
Tensile Stress (Yield)	10.3	MPa	DIN 53504
Tensile Elongation (Break)	1100	%	DIN 53504
Compression Set			ISO 815
23°C, 22 hr	20	%	
70°C, 22 hr	85	%	
100°C, 22 hr	86	%	
Thermal	Nominal Value	Unit	Test Method

Glass Transition Temperature ¹	-35.0	°C	DSC
Melting Temperature (DSC) ²	163	°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

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection.All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

