

Mediprene® OF 700M

Thermoplastic Elastomer

ELASTO

Message:

The Mediprene oil free compounds were developed to address demands for transparent medical thermoplastic elastomer (TPE) grades with a minimum of potential extractables and leachables.

The Mediprene OF range, helps to prevent the possibility of oil migrating or leaching out of the material, a key requirement for medical and healthcare-related devices. They are ideal for sensitive medical applications where transparency is also required.

Regulatory compliance

Representative Mediprene grades have passed cytotoxicity tests according to ISO 10993-5 and are compliant with USP Class VI. Mediprene TPE materials are PVC, silicone and latex free, making them allergen free and a viable alternative to PVC based compounds.

General Information			
Features	Ethylene Oxide Sterilizable		
	Good Adhesion		
	Low Extractables		
	Radiation Sterilizable		
	Steam Sterilizable		
Uses	Medical/Healthcare Applications		
	Tubing		
Appearance	Clear/Transparent		
	Colors Available		
Forms	Pellets		
Processing Method	Extrusion		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.890	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/5.0 kg)	2.0	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 4.00 mm)	70		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
--	11.0	MPa	
100% Strain	2.50	MPa	
300% Strain	4.00	MPa	
Tensile Elongation (Break)	600	%	ASTM D638
Elastomers	Nominal Value	Unit	Test Method
Tear Strength	41.0	kN/m	ASTM D624

Thermal	Nominal Value	Unit
Service Temperature ¹	-50 to 125	°C
Injection	Nominal Value	Unit
Rear Temperature	180 to 230	°C
Middle Temperature	180 to 230	°C
Front Temperature	180 to 230	°C
Mold Temperature	20.0 to 50.0	°C
Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	150 to 210	°C
Cylinder Zone 2 Temp.	150 to 210	°C
Cylinder Zone 3 Temp.	150 to 210	°C
Cylinder Zone 4 Temp.	150 to 210	°C
Cylinder Zone 5 Temp.	150 to 210	°C
NOTE		
1.	Unstressed Material	

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



WECHAT