



date: 10.01.2018

data sheet product **TUBE TPE MEDICAL**

Parameter	Value	Unit	Norm
Elastomer base	TPE		
Geometry	Tube		
Density	0,92	g/cm ³	ASTM D 792/ ISO1183
Hardness	65 at 5 sec.	Shore A	ASTM D 2240/ ISO868
Hardness	65 at 15 sec. (23°C) 2 mm	Shore A	ASTM D 2240/ ISO868
Tensile strength	>5,9 at 23°C	MPa	ASTM D 412/ ISO37
Elongation	min. 480 at 23°C	%	ASTM D 412/ ISO37
Module 100	2,4 at 23°C	MPa	ASTM D 412/ ISO37
Tear resistance	24 at 23°C	kN/m	ASTM D 624 die C/ ISO 34 Meth. B,b
Tear resistance	10 at 100°C	kN/m	ASTM D 624 die C/ ISO 34 Meth. B,b
Compression set	19 at 23°C; 168 h	%	ASTM D 395 Meth. B/ ISO 815 Typ A
Temperature	-45 to +135	°C	
Color	light beige		

Medical Grade suitable for contact with aqueous foods, FDA 21 CFR §177.2600 (e) compliant, not toxic to cells, USP XXIII Class VI compliant, additional tests according to ISO 1993 were made compliant EU regulation 2002/95 / EC (RoHS), the REACH regulations and the EC 10/2011.

Chemical resistance

very good chemical resistance to aqueous media, acids, bases and many organic solvents. Good resistance to milk and vegetable oils.

Good gas impermeability

Fatigue strength:> 3 million cycles

The values of these specifications come from regular controls of the compounds with the aid of norm samples and perform an average. They correspond to the actual state of the knowledge, the latest development of the sciences and our experience. They do not specify sure properties for the finals products. The indications in this data sheet are only a description of the typical properties and represent an aid and information for the user to give him some suggestions for his own application. But it remains in his responsibility to make sure with a specific trial that our product suits for his own purpose.

We strive to continuously improve our products. We reserve the right to modify and adjust the data sheet and our blends referring to the material properties. These will be documented with a new change status (date).