

## TPE PROVAMED® 1349 TP

### Application

Injection Molding of Elastic Parts, Extrusion

02.05.2019

	Unit	Method <sup>1</sup>	
<b>Physical Properties</b>			
Specific Gravity	[g/cm <sup>3</sup> ]	ISO 1183	0,99
Melt Flow Rate			
190 °C, 5 kg	[g/10min]	ISO 1133	13
200 °C, 5 kg	[g/10min]	ISO 1133	21
melt density	[g/cm <sup>3</sup> ]	ISO 1133	0,9
<b>Mechanical Properties</b>			
Hardness			
Shore A	[-]	ASTM D 2240, 5 s	-
Shore D	[-]	ASTM D 2240, 5 s	49
Tensile Strength	[MPa]	ISO 527-2	13,9
Elongation at Break	[%]	ISO 527-2	270
Tensile Modulus	[MPa]	ISO 527-2	1150
<b>Thermal Properties</b>			
Differential Scanning Calorimetry <sup>2</sup>			
Glass Transition Temperature <sup>3</sup>	[°C]	ADS - Method	-
Melting Peak <sup>3</sup>	[°C]	ADS - Method	-
<b>Optical Properties</b>			
Transparency			yes
<b>Sterilization</b>			
Steam Sterilization <sup>4</sup> 121/134 °C			no/no
Ethylene Oxide <sup>5</sup>			yes
Gamma Radiation <sup>6</sup>			yes
<b>Regulatory</b>			
USP VI			yes
ISO10993			yes
<b>Processing Properties for Injection Molding</b>			
Processing Temperatures			
Hopper	[°C]		20-30
Barrel	[°C]		140-220
Nozzle	[°C]		170-240
Mould	[°C]		20-40

### Storage Conditions

Protected from direct sunlight, temperatures exceeding 40°C, humidity and sources of off-odors.

(1) According to (2) Heating rate 10 K/min (3) Second heating cycle (4) 15 min. (5) 1 and 3 cycles, 270-500 mg/l (6) 25 and 50 kGy

(7) See separate bulletin on sterilization

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