

Technical Data Sheet (Preliminary)



TPE PROVAMED® 1133 VP180364 LF TL

Application

Injection Molding of Elastic Parts, Extrusion

26.02.2019

	Unit	Method ¹	
Physical Properties			
Specific Gravity	[g/cm ³]	ISO 1183	0,89
Melt Flow Rate			
160 °C, 2,16 kg	[g/10min]	ISO 1133	-
190 °C, 2,16 kg	[g/10min]	ISO 1133	-
190 °C, 5,00 kg	[g/10min]	ISO 1133	15
230 °C, 2,16 kg	[g/10min]	ISO 1133	-
Mechanical Properties			
Hardness			
Shore A	[-]	ASTM D 2240, 5 s	33
Shore D	[-]	ASTM D 2240, 5 s	-
Tensile Strength	[MPa]	DIN 53504	2,4
Elongation at Break	[%]	DIN 53504	> 500
Tensile Strength at 100% Elongation	[MPa]	DIN 53504	1,1
Compression Set ^{25 % Compression}			
23 °C, 22 h	[%]	ISO 815	11
70 °C, 22 h	[%]	ISO 815	41
100 °C, 22 h	[%]	ISO 815	-
Thermal Properties			
Differential Scanning Calorimetry ²			
Glass Transition Temperature ³	[°C]	ADS - Method	-
Melting Peak ³	[°C]	ADS - Method	-
Optical Properties			
Transparency			translucent
Sterilization			
Steam Sterilization ⁴ 121/134 °C			no
Ethylene Oxide ⁵			yes
Gamma Radiation ⁶			no
Regulatory			
USP VI			-
ISO10993			yes
Processing Properties for Injection Molding			
Processing Temperatures			
Hopper	[°C]		20-30
Barrel	[°C]		170-200
Nozzle	[°C]		190-200
Mould	[°C]		30-40

Storage Conditions

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

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(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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