

TPE PROVAMED® D1345 TP

Application

Injection Molding of Elastic Parts, Extrusion

02.05.2019

	Unit	Method ¹	
Physical Properties			
Specific Gravity	[g/cm ³]	ISO 1183	0,98
Melt Flow Rate			
190 °C, 5 kg	[g/10min]	ISO 1133	23,5
200 °C, 5 kg	[g/10min]	ISO 1133	37,5
Mechanical Properties			
Hardness			
Shore A	[-]	ASTM D 2240, 5 s	-
Shore D	[-]	ASTM D 2240, 5 s	46
Tensile Strength	[MPa]	ISO 527-2	14,9
Elongation at Break	[%]	ISO 527-2	300
Tensile Modulus	[MPa]	ISO 527-2	1100
Thermal Properties			
Differential Scanning Calorimetry ²			
Glass Transition Temperature ³	[°C]	ADS - Method	-
Melting Peak ³	[°C]	ADS - Method	-
Optical Properties			
Transparency			yes
Sterilization			
Steam Sterilization ⁴ 121/134 °C			no/no
Ethylene Oxide ⁵			yes
Gamma Radiation ⁶			yes
Regulatory			
USP VI			yes
ISO10993			yes
Processing Properties for Injection Molding			
Processing Temperatures			
Hopper	[°C]		20-30
Barrel	[°C]		140-200
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

TDS_PROVAMED®D 1345 TP_Version_0_072018

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