

Technical Data Sheet (Preliminary)

TPE ProvaMed® 1375 VP150160 transparent

Application

Injection Molding of Elastic Parts, Extrusion

04.12.2015

	Unit	Method ¹	
Physical Properties			
Specific Gravity	[g/cm ³]	ISO 1183	0,97
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	20
230 °C, 2,16 kg	[g/10min]	ISO 1133	-
Mechanical Properties			
Hardness			
Shore A	[-]	ASTM D 2240, 5 s	75
Shore D	[-]	ASTM D 2240, 5 s	-
Tensile Strength	[MPa]	DIN 53504	9,7
Elongation at Break	[%]	DIN 53504	260
Tensile Strength at 100% Elongation	[MPa]	DIN 53504	7,8
Compression Set ²⁵ % Compression			
23 °C, 22 h	[%]	ISO 815	-
70 °C, 22 h	[%]	ISO 815	-
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			yes
Sterilization			
Steam Sterilization ⁴ 121/134 °C			no
Ethylene Oxide ⁵			-
Gamma Radiation ⁶			-
Regulatory			
USP VI			-
ISO10993			-
Processing Properties for Extrusion			
Processing Temperatures			
feeder	[°C]		140-160
extruder head	[°C]		170-240
adapter	[°C]		170-240
cylinder zones	[°C]		170-240
die plate/nozzle	[°C]		170-240
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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