

# PET Rod Extruded Technical Sheet

Natural / Black



	Test	Unit	Value
Density:	ISO 1183	g/cm <sup>3</sup>	1.39
Moisture pick-up till saturation (in normal climate 23 °C) :	ISO 62	%	0.3
Water absorption till saturation (in water at 23 °C) :	ISO 62	%	0.5
Temperature for using in air (maximum):	Max. short term	°C	90
Temperature for using in air (maximum):	Max. short term	°C	-
Temperature for using in air (minimum):	-	°C	15
Heat distortion temperature (HDT A process):	ISO 75-2	°C	3600
Coefficient of linear expansion, at length (23-60) °C :	DIN 53752	1/K	-
Thermal conductivity (23 °C):	DIN 52612	W/(K·m)	170
Flammability according UL standard:	UL 94	Grade	M 95
Vicat softening temperature (VST/B/50):	ISO 306	°C	> 50
Melting point DSC (10 K/min):	ISO 3146	°C	3
Tensile stress at yield (v = 50 mm/min):	ISO 527-2	N/mm <sup>2</sup>	160
Tensile stress at break (v = 5 mm/min):	ISO 527-2	N/mm <sup>2</sup>	115
Nominal percentage elongation at break:	ISO 527-2	%	-20
Tensile modulus of elasticity:	ISO 527-2	N/mm <sup>2</sup>	75
Flexural modulus of elasticity:	ISO 178	N/mm <sup>2</sup>	0.6·10 <sup>-4</sup>
Ball indentation hardness (value at 30 s):	ISO 2039-1	N/mm <sup>2</sup>	0.27
Rockwell hardness:	ISO 2039-2	-	HB
Charpy impact strength (23 °C) :	ISO 179/1eU	kJ/m <sup>2</sup>	-
Charpy impact strength - notched (23 °C) :	ISO 179/1eA	kJ/m <sup>2</sup>	255
Specific volume resistivity:	IEC 60093	Ω·m	1013
Specific surface resistivity:	IEC 60093	Ω	1014

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Dielectric constant (at 1 MHz)*:	IEC 60250	-	3.2
Dielectric constant (at 100 Hz)*:	IEC 60250	-	3.4
Dissipation factor (at 1 MHz)*:	IEC 60250	-	0.014
Dissipation factor (at 100 Hz)*:	IEC 60250	-	0.001
Dielectric strength K20/K20:	IEC 60243-1	kV/mm	22
Comparative tracking index (CTI):	IEC 60112	-	600

All The above information is for guide purposes only. The data has been taken from standard test results provided by manufactures.