Technical Data Sheet

Coathylene® Sint PS

I GENERAL PROPERTIES	Symbols	Test Methods	Units	Values
Polymer		**POLYSTYRENE (PS)**		
Melt Flow Index	(MFI 200/5)	ASTM D 1238	g/10 min	15 -37
Density	(D^{23}_4)	ASTM D 1505	g/cm^3	1.04
Vicat Softening Point	(VSP)	DIN 53460	°C	> 80°C
Water Absorption		DIN 53495	%	0.1
Particle Size, Maximum		Laser	µm	90
Particle Size, Average	X_{50}	Laser	µm	45-60

II MECHANICAL PROPERTIES (STANDARD ATMOSPHERE 23°C, 50% RELATIVE HUMIDITY)				
Tensile Strengh At Break (50mm/Min)	(σ_R)	ASTM D 638	MPa	35
Elongation At Break (50 Mm/Min)	(ε_R)	ASTM D 638	%	4
Modulus Of Elasticity	(E)	ASTM D 790	MPa	3400
Shore Hardness	(D)	ASTM D 2240	---	91

III THERMAL PROPERTIES				
Coef. Of Linear Expansion (20-90°C)		DIN 52328	K^{-1}	8×10^{-5}
Decomposition Temp. In Vacuo		---	°C	250

IV ELECTRICAL PROPERTIES (STANDARD ATMOSPHERE 20°C, 45% RELATIVE HUMIDITY)				
Volume Resistivity	(ρ_V)	DIN 53482	Ω.cm	10^{16}
Surface Resistivity	(ρ_S)	DIN 53482	Ω	5×10^{13}
Dielectric Strength	(E_d)	DIN 53481	KV/mm	10
Dielectric Constant (1 X 10^6hz)	(ε_R)	DIN 53483	---	2.65
Dissipation Factor (1 X 10^6hz)	(tan δ)	DIN 53483	---	4.5×10^{-4}

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