

Technical Data Sheet



Coathylene® Sint PP

I GENERAL PROPERTIES	Symbols	Test Methods	Units	Values
Polymer		POLYPROPYLENE (PP)		
Melt Flow Index	(MFI 230/2,16)	ASTM D 1238	g/10 min	23 - 59
Density	(D ²³ ₄)	ASTM D 1505	g/cm ³	0.905
Crystalline Melting Range	(CMR)	DSC (10°C/min)	°C	159 - 171
Vicat Softening Point	(VSP)	ASTM D 1525	°C	145
Water Absorption		DIN 53495	%	0.03
Particle Size, Maximum		Air jet sieve	µm	90
Particle Size, Average	X ₅₀	Laser	µm	55-75

II MECHANICAL PROPERTIES (STANDARD ATMOSPHERE 23°C, 50% RELATIVE HUMIDITY)				
Tensile Strength At Break (50mm/Min)	(σ _R)	ASTM D 638	MPa	33
Elongation At Break (50 Mm/Min)	(ε _R)	ASTM D 638	%	11
Modulus Of Elasticity	(E)	ASTM D 790	MPa	1300
Shore Hardness	(D)	ASTM D 2240	---	70

III THERMAL PROPERTIES				
Brittleness Temperature		ASTM D 746	°C	< - 2
Thermal Conductivity (20°C)		DIN 52612	W/m/K	0.22
Coef. Of Linear Expansion (20-90°C)		DIN 52328	K ⁻¹	1.1 x 10 ⁻⁴
Specific Heat (Solid 20°C)		---	J/g°C	1.6
Decomposition Temp. In Vacuo		---	°C	200

IV ELECTRICAL PROPERTIES (STANDARD ATMOSPHERE 20°C, 45% RELATIVE HUMIDITY)				
Volume Resistivity	(ρ _V)	DIN 53482	Ω.cm	> 10 ¹⁷
Dielectric Constant (1 X 10 ⁶ hz)	(ε _R)	DIN 53483	---	2.25
Dissipation Factor (1 X 10 ⁶ hz)	(tan δ)	DIN 53483	---	< 1 x 10 ⁻⁴

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