



PE300 Extruded Profiles

Bay Plastics Datasheet

Property	Test Method	Unit	Value
Specific gravity	ISO 1183	g/cm ³	0.95
Water absorption	ISO 62	%	0.01
Maximum permissible service temperature	-	-	DIN 8075
Upper temperature limit	-	°C	90
Lower temperature limit	-	°C	50
Tensile strength at yield	ISO 527	MPa	27
Elongation at yield	ISO 527	%	9
Tensile strength at break	ISO 527	MPa	35
Elongation at break	ISO 527	%	≥700
Impact strength	ISO 179	kJ/m ₂	No break
Notch impact strength	ISO 179	kJ/m ₂	29
Ball indentation / Rockwell hardness	ISO 2039-1	MPa	-
Shore D	DIN 53505	-	64
Flexural strength	ISO 178	MPa	22
Modulus of elasticity	ISO 527	MPa	1150
Vicat softening point VST/B/50	ISO 306	°C	80
VST/A/50	-	°C	129
Heat deflection temperature HDT/B	ISO 75	°C	69
HDT/A	-	°C	-
Coefficient of linear thermal expansion	DIN 53752	K ⁻¹ *10 ⁴	1.5
Thermal conductivity	-	W/(m*K)	0.42
Volume resistivity	VDE 0303	Ω*cm	>10 ¹⁵
Surface resistivity	-	Ω	≥10 ¹⁶
Dielectric constant at 1MHz	-	-	2.35
Dielectric loss factor at 1MHz	DIN 53483	-	0.0003
Dielectric strength	VDE 0303	kV/mm	17
Tracking resistance	IEC 60112	-	-
Bond ability	-	-	+
Friction coefficient	DIN 53375	-	0.3
Flammability	UL 94	-	HB
UV stabilisation	-	-	Fair

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