

TECHNICAL DATA SHEET

ROMILOY[®] 9170 E

ROMIRA

PC/ABS, extrusion and injection moulding grade, chlorine-, bromine- and antimon-free flame retardant

PROPERTY	Test Method	Condition	Unit	Value*
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MECHANICAL.....

Tensile Modulus	DIN EN ISO 527	1 mm/min 23 °C	MPa	2,570
Tensile Strength	DIN EN ISO 527	50 mm/min 23 °C	MPa	58
Elongation at Break	DIN EN ISO 527	50 mm/min 23 °C	%	30
Flexural Modulus	DIN EN ISO 178	2 mm/min 23 °C	MPa	2,550
Flexural Strength	DIN EN ISO 178	2 mm/min 23 °C	MPa	92
Notched Impact Strength (Charpy)	DIN EN ISO 179/1eA	80 x 10 x 4 mm 23 °C	kJ/m ²	29
Impact Strength (Charpy)	DIN EN ISO 179/1eU	80 x 10 x 4 mm 23 °C	kJ/m ²	n.b.

PHYSICAL.....

Density	DIN EN ISO 1183	23 °C, 50 % RH	g/cm ³	1.18
Water Absorption	DIN EN ISO 62	23 °C, 50 % RH, 24 h	%	0.3

THERMAL.....

Heat deflection temperature (HDT/A)	DIN EN ISO 75-1	1,8 MPa	°C	85
Vicat Softening Temperature (B 50)	DIN EN ISO 306	50 N, 50 °C/h	°C	104
Melt Mass-Flow Rate (MFR)	DIN EN ISO 1133	240 °C, 5 kg	g/10 min	12
Thermal Coefficient of Linear Expansion	ISO 11359-2	23 °C - 55 °C	10 ⁻⁴ · K ⁻¹	0.8
Processing Shrinkage	DIN EN ISO 294-4	23 °C	%	0.4 - 0.7
Glow Wire Flammability Index (GWFI)	DIN EN 60695-2-12	2.0 mm	°C	960
Glow Wire Ignition Temperature (GWIT)	DIN EN 60695-2-13	2.0 mm	°C	700
Flammability (own test)	UL94	1.5 mm	--	V-0, 5VB

ELECTRICAL.....

Comparative Tracking Index (CTI)	DIN EN 60112	--	V	600
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