

Technical Data Sheet



ROMILOY® 8170

PC/ASA-Blend, chlorine-, bromine- and antimony-free flame retardant

Properties	Unit	Test Method	Test Condition	Value*
Mechanical				
Tensile Modulus	MPa	DIN EN ISO 527	23°C 1 mm/min	2,400
Tensile Strength	MPa	DIN EN ISO 527	23°C 50 mm/min	65
Elongation at Break	%	DIN EN ISO 527	23°C 50 mm/min	30
Flexural Modulus	MPa	DIN EN ISO 178	23°C 2 mm/min	2,600
Flexural Strength	MPa	DIN EN ISO 178	23°C 2 mm/min	98
Notched Impact Strength (Charpy)	kJ/m ²	DIN EN ISO 179/1eA	80 x 10 x 4 mm 23°C	21
Impact Strength (Charpy)	kJ/m ²	DIN EN ISO 179/1eU	80 x 10 x 4 mm 23°C	n.b.
Physical				
Density	g/cm ³	DIN EN ISO 1183	23°C, 50% RH	1.18
Water Absorption	%	DIN EN ISO 62	23°C, 24 h	-
Thermal				
Heat Distortion Temperature A	°C	DIN EN ISO 75/1	1.8 MPa	76
Vicat Softening Temperature B 50	°C	DIN EN ISO 306	50 N 50°C/h	102
Melt Mass Flow Rate (MFR)	g/10 min	DIN EN ISO 1133	240°C, 5 kg 260°C, 5 kg	25 40
Thermal Coefficient of Linear Expansion	10 ⁻⁴ · K ⁻¹	ISO 11359-2	23°C - 55°C	-
Processing Shrinkage	%	DIN EN ISO 294-4	23°C	0.4 - 0.7
Glow Wire Flammability Index (GWFI)	°C	DIN EN 60695-2-12	3.0 mm	850
Flammability (File No.: 148878 → UL listed)	--	UL94	1.5 mm	V-0

* = These are average figures, which could vary in each production batch due to addition of pigments, antistatica, slip, uv stabilizer or other.

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