

## Technical data - ISO 25980 welding PVC strip curtains

rev 2024/07

PROPERTY	STANDARD	UNITS	STANDARD	DESCRIPTION
Light transmittance	ASTM D1003	%	≤13	Visible light rate transmitted through the material.
Shore A hardness	ISO 868	Sh A	80	Index based on a flat indenter's penetration depth. Scale from 0 (soft) to 100 (hard).
Tearing resistance	DIN 53515	N/mm	55	Minimum tensile stress required to tear a pre-slit sample.
Tensile strength at break	ASTM D638 ISO 527	N/mm <sup>2</sup>	18	Maximum tensile stress that a material can be subjected to before break.
Elongation at break		%	300	Elongation of the specimen at the break point under tensile stress.
Residual elong. (after break)		%	62	Permanent elongation of the specimen measured after rupture in a tensile test.
Thermal conductivity	ASTM C177	W/m·K	0.16	Ability to conduct heat. The lower it is, the more insulation.
Cold bend brittle temp.	ISO 8570	°C	-25	Temperature at which the specimen break under torsion stress. Brittle point (Clash & Berg).
Min. usage temperature	DIN EN 1876	°C	-15	Temperature range where material keep its mechanical properties (flexibility).
Max. usage temperature		°C	+50	
Vicat softening temperature	ISO 306	°C	50	Temperature at which the specimen is penetrated to a depth of 1 mm by a 1 kg flat indenter of 1 mm <sup>2</sup> .
Specific heat capacity	ISO 11357	kJ/kg·K	1.6	Heat energy required to increase the temperature of one kilogram of the material by one degree Celsius.
Sound reduction	DIN 52210	dB	>35	Average sound level (frequency 0.1 to 3.2 kHz) decreased by a 1.76 m <sup>2</sup> and 5 mm thick PVC curtain.
Reaction to fire	EN 13501-1:2007	-	Yes	Standard classifications of material self-extinguishing and resistance to combustion.
UV/IR filter	ISO EN 25980	-	Yes	Ability to filter welding rays allowing the use of this material as a welding protection screen.
UV resistance	ISO 4892	-	Yes	Ability to resist to UV (sun, welding arc).
Surface resistivity	ASTM D257	.10 <sup>10</sup> Ω/□	30	Material surface electric resistivity measured with a 100 V direct voltage.
Water absorption	ISO 62	%	-0.2	Material mass variation after exposure to humid conditions (<0 if released/ >0 if absorbed).
Anti-insect	-	-	No	Special ability to keep insects away (food processing plants, tropical regions).
Density	ASTM D792	g/cm <sup>3</sup>	1.25 to 1.30	Mass per unit volume.

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