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Data Sheet CS002-101-PV-RD-01-RS - 300 x 2 Standard PVC Strip Red Tin 50M(Welding)

PROPERTY	Standard	Units	Standard	Description
Light transmittance	ASTM D 1003	%	85	Visible light rate transmitted through the material.
Shore A hardness	EN 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	50	Minimum tensile stress required to tear a pre-slit sample.
Tensile strength at break	ASTM D 638 EN ISO 527	N/mm ²	16	Maximum tensile stress that a material can be subjected to before break.
Elongation at break		%	340	Elongation of the specimen at the break point under tensile stress.
Residual elong. (after break)		%	68	Permanent elongation of the specimen measured after rupture in a tensile test.
Thermal conductivity	ASTM C 177	W/m.K	0,16	Ability to conduct heat. The Lower it is, the more insulation.
Cold bend brittle temp.	ISO 8570	°C	-35	Temperature at which the specimen break under torsion stress. Brittle point (CLASH & BERG).
Min. usage temp.	EN 1876	°C	-15	Temperature range where material keep its mechanical properties (flexibility).
Max. usage temp.		°C	+50	
Vicat softening temp.	EN 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 sq. mm.
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 (freq. 0,1 to 3,2 kHz) decreased by a 1,76 sq.m. and 5 mm thick PVC curtain.
Reaction to fire	EN 13501-1:2007	Class	-	Standard classifications of material self-extinguishing and resistance to combustion.
UV/R filter	EN 1598 & ISO 25980	-	-	Ability to filter welding rays allowing the use of this material as a welding protection screen.
UV resistance	ISO 4892	-	High	Ability to resist to UV (Sun, welding arc).
Surface resistivity	ASTM D257	.10 ¹⁰ Ω/□	30	Material surface electric resistivity measured with a 100 V direct voltage.
Water absorption	EN 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 D 792	g/cm ³	1,22	Mass per unit volume.

