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FLEXIBLE PVC TECHNICAL SPECIFICATIONS

VALUES

PROPERTY	Standard	Units	Standard	Reinforced	Polar	Super Polar	Anti-Insect	Anti-static	High Fire Retardant	High UV Resistant	Hard Neutral	Colored Opaque or Transp	Screenflex (Welding)
Light transmittance	ASTM D 1003	%	85	85	85	85	< 80	85	85	80	85	0 to 80	< 13
Shore A hardness	EN ISO 868	Sh A	80	80	65	62	80	80	80	80	85	65 to 85	80
Tearing resistance	DIN 53515	N/mm	50	80	28	25	50	50	65	50	65	28 to 65	55
Tensile strength at break	ASTM D 638 EN ISO 527	N/mm ²	16	16	12	10	16	16	20	16	20	12 to 20	18
Elongation at break		%	340	340	390	420	340	340	280	340	280	280 to 390	300
Residual elong. (after break)		%	68	60	76	80	68	68	60	68	60	60 to 76	62
Thermal conductivity	ASTM C 177	W/m.K	0,16	0,16	0,16	0,16	0,16	0,16	0,16	0,16	0,16	0,16	0,16
Cold bend brittle temp.	ISO 8570	°C	-35	-35	-40	-65	-35	-35	-20	-35	-20	-20 to -40	-25
Min. usage temp.	EN 1876	°C	-15	-15	-25	-60	-15	-15	0	-15	0	-15 to -25	-15
Max. usage temp.		°C	+50	+50	+30	+15	+50	+50	+50	+50	+50	+30 to +50	+50
Vicat softening temp.	EN ISO 306	°C	50	50	48	46	50	50	50	50	50	48 to 50	50
Specific heat capacity	ISO 11357	Kj/kg.K	1,6	1,6	1,6	1,6	1,6	1,6	1,6	1,6	1,6	1,6	1,6
Sound reduction	DIN 52210	dB	>35	>35	>35	>35	>35	>35	>35	>35	>35	>35	>35
Fire retardance	NF P 92-507 AS7NZS 38347 DIN 4102	Grade	Grp4 B2	Grp4 B2	-	-	Grp4 B2	Grp4 B2	M2 Grp 3	Grp4 B2	Grp4 B2	Grp4 B2	EN 1598
UV/IR filter	EN 1598	Filter	-	-	-	-	-	-	-	-	-	-	EN 1598
UV resistance	ISO 4892	-	Yes	Yes	Yes	Yes	Yes	Yes	Yes	High	Yes	Yes	High
Charge buildup	IEC 61087	Sparkes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
Surface resistivity	IEC 60093	Ω/□	4.10 ¹³	4.10 ¹³	4.10 ¹³	4.10 ¹³	4.10 ¹³	2.10 ¹²	4.10 ¹³	4.10 ¹³	4.10 ¹³	4.10 ¹³	4.10 ¹³
Water absorption	EN ISO 62	%	-0,2	-0,2	-0,2	-0,2	-0,2	1 to 1,6	-0,2	-0,2	-0,2	-0,2	-0,2
Anti-insect	-	-	No	No	No	No	Yes	No	No	No	No	No	No
Density	ASTM D 792	g/cm ³	1,22	1,23	1,18	1,18	1,22	1,22	1,33	1,22	1,29	1,2 to 1,5	1,2 to 1,3

The data contained in this technical specification is given for information only and is based on our current knowledge of the products concerned

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