

CHARACTER	STANDARD	UNITS	STANDARD	REINFORCED	POLAR	SUPER POLAR	ANTI INSECT	ANTI STATIC	HIGH FIRE RETARDANT	HIGH UV RESISTANT	WELDING
Light transmittance	ASTM D1003	%	85	85	85	85	< 80	85	85	80	≅ 13
Shore A hardness	ENISO 868	sh A	80	80	65	62	80	80	80	80	80
Tearing resistance	DIN 53515	N/mm	50	80	28	25	50	50	65	50	55
Tensile strength at break	ASTM D638	N/mm <sup>2</sup>	16	16	12	10	16	16	20	16	18
Elongation at break		%	340	340	390	420	340	340	280	340	300
Residual elong(after break)	ENISO527	%	68	60	76	80	68	68	60	68	62
Thermal conductivity	ASTM C177	W/m.k	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	-35	-20	-25
Min. usage temp	EN 1876	°C	-15	-15	-25	-60	-15	-15	0	-15	-15
Max. usage temp		°C	50	50	30	15	50	50	50	50	50
Vicat softening temp	ENISO 306	°C	50	50	48	46	50	50	50	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
Sound reduction	DIN 52210	db	>35	>35	>35	>35	>35	>35	>35	>35	>35
Fire retardance	NF P92-507 AS/NZS3837 DIN 4102	Grade	Grp4 B2	Grp4 B2	-	-	Grp4 B2	Grp4 B2	M2 Grp3	Grp4 B2	En 1598
UV/IRfilter	EN1598	Filter	-	-	-	-	-	-	-	-	En 1598
UV resistance	ISO4892	-	Yes	Yes	Yes	Yes	Yes	Yes	Yes	High	High
Charface buildup	IEC61087	Sparks	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Surface resistivity	IEC60093	Ω/□	4*10 <sup>13</sup>	4*10 <sup>13</sup>	4*10 <sup>13</sup>	4*10 <sup>13</sup>	4*10 <sup>13</sup>	2*10 <sup>13</sup>	4*10 <sup>13</sup>	4*10 <sup>13</sup>	4*10 <sup>13</sup>
Water absorption	ENISO62	%	-0.2	-0.2	-0.2	-0.2	-0.2	1~1.6	-0.2	-0.2	-0.2
Anti-insect	-	-	No	No	No	No	Yes	No	No	No	No
Density	ASTM D792	g/cm <sup>3</sup>	1.22	1.23	1.18	1.18	1.22	1.22	1.33	1.22	12~1.3