Technical Data Sheet

Trovidur® ESA-D white

PVC-U

Typical characteristics

- High impact resistance
- UV-resistant
- Weatherability
- Good printability
- RoHS compliant
- ELV compliant
- WEEE compliant
- RLAP compliant
- Homogeneously smooth surface for good paint adhesion
- High cold impact strength
- Colour white for outdoor applications
- Coloured for indoor applications
- Flame retardant
- Self-Extinguishing after removal of the flame
- Good weldability
- Good thermoformability
- Good glueability
- Glossy surface

Typical industries

- Building industry

	Test method	Unit	Guideline value
General properties			
Density	DIN EN ISO 1183-1	g / cm^3	1,41
Water absorption	DIN EN ISO 62	%	0,20
Flammability (Thickness 1 ... 4 mm)	DIN 4102		B1
VOC	ISO 16.000	conform	-
Flammability (Thickness 2,5 mm)	BS 476 Part 6		Class 0
Flammability (Thickness 1 ... 4 mm)	NF P 92-501		M1

	Test method	Unit	Guideline value
Flammability (Thickness 2 ... 4 mm)	BS 476 Part 7		Class 1
Flammability (Thickness 2,5 mm)	EN 13501-1		B s3 d0
Flammability (Thickness 4 mm)	EN 13501-1		B s3 d2
Mechanical properties			
Yield stress	DIN EN ISO 527	MPa	45
Elongation at break	DIN EN ISO 527	%	20
Tensile modulus of elasticity	DIN EN ISO 527	MPa	2500
Notched impact strength	DIN EN ISO 179	kJ / m^2	8
Shore hardness	DIN EN ISO 868	scale D	80
Ball indentation hardness	DIN EN ISO 2039-1	MPa	110
Compressive strength	DIN EN ISO 604	MPa	65
Bending strength	DIN EN ISO 178	MPa	60
Thermal properties			
Thermal conductivity	DIN EN ISO 8302	W / (m * K)	0,16
Vicat softening temperature	DIN EN ISO 306, Vicat B	°C	75
Service Temperature		°C	-20 ... +60
Heat deflection temperature	DIN EN ISO 75	°C	70
Coefficient of linear thermal expansion	DIN EN ISO 11359-2	mm/m K	~ 0,075
Electrical properties			
Dielectric constant	IEC 60250		3,2
Dielectric dissipation factor (10^6 Hz)	IEC 60250		0,02
Volume resistivity	DIN EN 62631-3-1	Ω * cm	$>10^{15}$
Surface resistivity	DIN EN 62631-3-2	Ω	$>10^{13}$
Dielectric strength	IEC 60243	kV / mm	12
Comparative tracking index	IEC 60112	CTI	600