→ TroLase - Technical Data Sheet

trotec® setting new standards
laser. marking cutting engraving

Physical Properties	Specifications
Substrate	Acrylic
Colors	See catalogue
Thicknesses	0,8 mm / 1,6 mm / 3,2 mm
Sheet Sizes	1245 x 616 mm (+/- 3 mm)
Fabrications Properties	Router, saw, die-cut and laser
Engraving Depth	0,08 mm
Use	Exterior, interior
Processing	Screenprinting: yes Hot stamping: yes UV printing: yes
UV Light Resistance	500 hours QUV or equivalent of 2 years without any color change or fading
Abrasion	Taber testing < 200 cycles CS17 wheel / 500 gram
Cleaning Instructions	N / A
Optical	N / A
Vicat Softening Point	ASTM D-1525 98 ° C (50 ° C/hr; 10N) ASTM D-1525 86 ° C (50 ° C/hr; 50N)
Specific Gravity	ASTM D-792 1.15 g/cc
Tensile Modulus	ASTM D-638 270,000 psi
Izod Impact	ASTM D-256 @ 23 ° C 1.1 ft-lbs/in notch
Flexural Modulus	ASTM D-790 270,000 PSI
Thermal Conductivity	ASTM C-117 1.5 BTU/hr*ft2*F/in
Tensile Strength @ Maximum	ASTM D-638 5,500 psi
Flexural Strength @ Maximum	ASTM D-790 10,300 psi
Heat Deflection Temperature	ASTM D-648 (0.455 MPa; annealed) 89 ° C ASTM D-648 (1.82 MPa; annealed) 80 ° C
Hardness	ASTM D-785 45M Rockwell
Melt Flow Rate	ASTM D-1238 1.0g/10min (230 ° C/ 3.8 kg)

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