



PROFESSIONAL PLASTICS

Gravoply™ Laser

Flexibility and performance for indoor and outdoor applications



CO₂



Rotary



UV print



Indoor



Outdoor



Surface



The most versatile plastic laser engraving material: indoor, outdoor, laser and rotary engraving and cutting. One product, one stock, many applications: architectural signage, industrial signage, labeling, legend plates, etc. Thanks to its surface of just a few microns, you get an excellent definition for your fine, complex engravings. Its acrylic base guarantees you optimal behavior during laser cutting.

WHITE/RED



ALMOND/BLACK



WHITE/BLUE



YELLOW/RED



WHITE/BLACK



YELLOW/BLUE



YELLOW/BLACK



DARK YELLOW/BLACK



ORANGE/WHITE



ORANGE/BLACK



RED/WHITE



RED/YELLOW



BURGUNDY/WHITE



BURGUNDY/GOLD



PURPLE/WHITE*



APPLE GREEN/WHITE



PINE GREEN/WHITE



SKY BLUE/WHITE



SKY BLUE/BLACK



BLUE/WHITE



BLUE/YELLOW



AIR FORCE BLUE/WHITE



AIR FORCE BLUE/GOLD



BROWN/WHITE



GREY/WHITE*



GREY/BLACK*



BLACK/WHITE



BLACK/YELLOW



BLACK/GOLD



Colors indicated for reference only. Please contact us for samples.
Subject to premature fading

Order Online at:
www.professionalplastics.com/Gravoply-Laser-Engraving

GRAVOPLY™ LASER

TECHNICAL DATA SHEET

SPECIFICATIONS	
MATERIAL – <i>matière</i>	PMMA
FINISH – <i> finition</i>	Matte
SHEET SIZE – <i>taille des feuilles</i>	1220 x 610 mm ± 3 mm / 24 ¼" x 48 ¾" ± 1/8"
THICKNESS – <i>épaisseur</i>	0.8 mm – 1.3 mm – 1.6 mm / 0.030 " – 0.050" – 1/16"
USAGE – <i>utilisation</i>	Architectural signage, industrial signage, labelling, legend plates... Signalétiques architecturale et industrielle, étiquettes, plaques d'identification...
ENGRAVING METHOD – <i>gravure</i>	Rotary, Laser
CUTTING DEPTH – <i>profondeur de gravure</i>	0.1 mm (.004")
TEMPERATURE RANGE – <i>résistance en température</i>	-40°C (-22°F) to 80° (160°F)
UV RESISTANCE – <i>résistance UV</i>	1400 h QUV or 3 years without significant degradation 1400 h QUV ou 3 ans sans dégradation significative
SCRATCH RESISTANCE – <i>résistance à l'abrasion</i>	Test TABER < 500 cycles CS17 /250g
FLAMMABILITY – <i>inflammabilité</i>	94 HB on UL94 test

PHYSICAL PROPERTIES	VALUES	ASTM METHOD
SPECIFIC GRAVITY – <i>densité</i>	1.15	ASTM D-792
HARDNESS ROCKWELL – <i>dureté</i>	45M	ASTM D-785
TENSILE STRENGTH – <i>résistance à la traction</i>	38 MPa	ASTM D-638
TENSILE MODULUS – <i>module de traction</i>	1.8 GPa	ASTM D-638
IZOD IMPACT STRENGTH (AT 23°C) – <i>impact au choc IZOD</i>	6.3 KJ/m ²	ASTM D-256
FLEXURAL MODULUS – <i>module de flexion</i>	1.7 GPa	ASTM D-790
FLEXURAL STRENGTH – <i>contrainte de flexion</i>	62 MPa	ASTM D-790
HDT TEMPERATURE AT WHICH MATERIAL DEFLECTS – <i>température de fléchissement sous charge</i>	88°C (1.82MPa) 93°C (0.455Mpa)	ASTM D-648
VICAT SOFTENING POINT – <i>point de ramollissement VICAT</i>	98°C (50°C/hr ;10N) 86°C (50°C/hr ;50N)	ASTM D-1525
COEFFICIENT OF THERMAL EXPANSION – <i>coefficient expansion thermique</i>	0.1x10 ⁻⁵	ASTM D-696
THERMAL CONDUCTIVITY – <i>conductivité thermique</i>	30.6 x10 ³ W/(m ² .K)	ASMT C-177
MELTING TEMPERATURE – <i>température de fusion</i>	235°C	
SURFACE RESISTIVITY – <i>conductivité surfacique</i>	3.1 x10 ⁷ ohm.m	ASMT D-257
VOLUME RESISTIVITY – <i>conductivité volumique</i>	3.8 x10 ¹¹ ohm.m	ASMT D-257

Gravotech warrants that its products comply with its technical specification within normal condition of use, without any other warranty including without being limited to any other warranty of merchantability, performance or suitability. Technical specifications result from data and technical report raised from suppliers or from Gravotech or external independent laboratory studies. Consequently each end user shall perform appropriate testing under real conditions of use to ensure consistency and adequacy of the product to its intended specific purpose and needs. Out of standard conditions of use as well as harsh conditions such as for example UV, hygrometry, salinity or temperature specifics shall be taken into account to avoid any product deterioration. End User shall be liable regarding its own testing results and therefore its final decision regarding suitability of the product according to Gravotech specifications and recommendation.

www.professionalplastics.com

sales@proplas.com

USA (888) 995-7767 – Singapore +65 6266-6193 – 台灣 Taiwan +886 (3) 5357850