

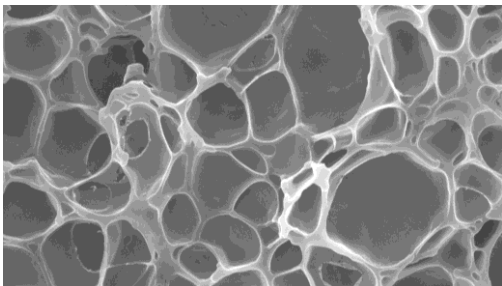
MCPET – Microcellular PET sheet



With our broad range of chemically and physically cross-linked PO foams TROCELLEN® is able to produce foams in rolls and sheets in different thicknesses, densities and compositions that exactly match the required properties and applications of our customers. Together with our Japanese shareholders Furukawa Electric we are one of the world's leading manufacturers of cross-linked PO foams.

TROCELLEN® uses various conversion capabilities to add value to its foam product portfolio, e.g. lamination processes with other foams, films, textiles or cover stock; adhesive coatings, die cutting, compression moulding, perforation and embossing. Prototyping with vacuum forming, press and twinsheet processes as well as customer individual development projects are also part of our services.

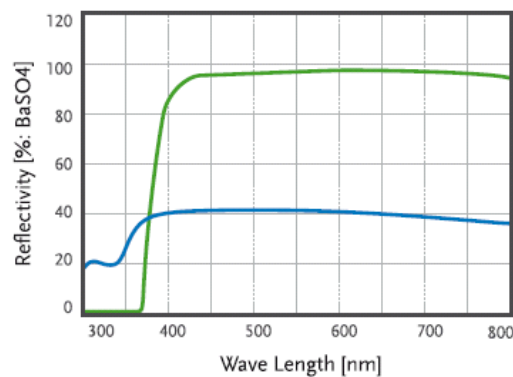
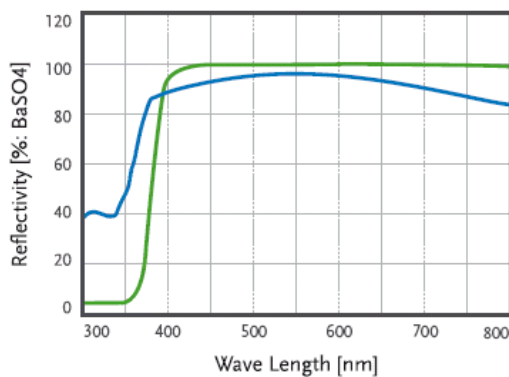
GENERAL INFORMATION



Properties:

- Excellent reflection power
- Total reflectivity : 99% or more
- Diffuse reflectivity : 96% or more
- Light weight and High impact strength
- Shape holding temperature : < 160 °C
- Non harmful materials
- Smooth surface

"MCPET" is structured by micro meter size foams which mean of diameter are 10µm or less. The reflectivity of MCPET is the highest level of reflectors that we are aware of.



— MCPET
— Aluminium reflector

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CHARACTERISTICS

Property	Description
Material	Foamed PET, white (polyethylene terephthalate)
Thickness (Tolerance)	0.94mm (-0.08, +0.08 mm)
Width (Tolerance)	600mm (-0, +5 mm)
Length (Tolerance)	1,000mm 1,200mm 1,500mm (-0, +20 mm)
Density (Tolerance)	345 kg/m ³ (-30, +30 kg/m ³)
Total reflectivity	99 % (relative reflectivity with BaSO ₄ at 550nm)
Diffuse reflectivity	96 % (relative reflectivity with BaSO ₄ at 550nm)
Tensile strength (Direction)	13.5MPa (MD) 13.5MPa (TD)
Bending strength (Direction)	900MPa (MD) 750MPa (TD)
Flame resistance certification	UL 94 – HBF (File No. E99693)
Glow wire Test	IEC 60695 GWFI 960/0.95, GWIT 850/0.95

APPLICATIONS AND USES

- Reflector for LED Backlighting (Instrument panel)
- Reflector for interior ambient lighting (Room lights)

→ The excellent reflection power leads to energy saving and reduction of petrol consumption
 → The diffuse reflection of MCPET provides comfortable, indirect lighting

BUSINESS UNIT AUTOMOTIVE

- Innovative solutions for automotive interior and acoustic applications: door watershield, airduct, trunk trim, headliner, head rest, arm rest, sealing and damping pads, etc.
- Characteristics: low weight, good acoustics, thermal attributes, excellent conversion processing in combination with a variety of materials e.g. foils, textiles, leather.

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For more information please contact our automotive team:

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