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Plaskolite is a leading manufacturer of continuous-process acrylic sheet and acrylic resin products. Founded in 1950, in Columbus, Ohio USA, Plaskolite’s reputation is based on excellent customer service, quality, stability and integrity.

Plaskolite markets its line of polymethyl methacrylate (PMMA) resins under the OPTIX® trade name. OPTIX resins provide superior clarity, ease of processing and unsurpassed outdoor weathering capabilities. Offered in general purpose, impact-modified and specialty grades, OPTIX resins are uniquely suited for a variety of applications in the optical, lighting, housewares, appliance, architectural, point-of-purchase, medical and automotive industries.

Plaskolite has an experienced, highly-trained technical service support team available to provide assistance with molding and product design for both the extrusion and injection molding processes.

General Information

General-Purpose Grades
Plaskolite offers a wide variety of OPTIX General Purpose (GP) resins for injection molding and extrusion processes. Transparent, translucent and opaque colors are available with varying levels of heat resistance, light transmission, lubricant content and melt flow rates. They provide unsurpassed clarity, excellent weatherability and ease of processing. Many grades of OPTIX acrylic resins comply with US FDA food contact regulation 21 CFR 177.1010.

Impact-Modified Grades
OPTIX Impact-Modified resins offer 4 to 12 times the impact strength of general purpose acrylic, while maintaining excellent optical properties. Some of Plaskolite’s impact-modified grades are produced to resist gamma ray sterilization and meet the USP class VI certification, as well as US FDA regulation 21 CFR 177.1010 for food contact.

Specialty Grades
Plaskolite is the only manufacturer of complex, custom tailored formulations. Its highly flexible production processes, combined with experienced personnel, allows Plaskolite to develop innovative products tailored to meet the most demanding specifications. Light diffusing resins, custom color matching and innovative products tailored to meet the most demanding specifications with experienced personnel, allows Plaskolite to develop innovative products tailored to meet the most demanding specifications.

Clarity and Brilliance
• Crystal clarity, over 92% light transmission
Impact Modified
• Up to 12 times stronger than general purpose grades
UV Grades
• Ultraviolet light transmissions can be adjusted from high UV transmittance to high UV absorption
Weatherability
• Highly resistant to ultraviolet degradation
Color Choices
• Available in a variety of transparent, translucent and opaque colors
Chemical Resistance
• Unaffected by alkalies, non-oxidizing acids and salt water
Electrical Insulation
• Excellent insulating properties, good resistance to arcing
Processability
• Wide range of uniform melt flow rates with excellent stability
Decorating
• Parts produced with OPTIX acrylic resins can be easily decorated using a variety of methods, including painting, screen printing, hot stamping and metatilization
Machinability
• Drill, thread, tap, rout and other machining operations
Ease of Assembly
• Cementing and ultrasonic welding easily provide strong bonds
Dimensional Stability
• Rugged, durable, unplasticized

OPTIX is uniquely suited for many applications:

Optical
• Lenses and fibers
Automotive
• Tail lights, lenses, trim, consoles and instrument cluster panels
Lighting
• Light diffusion panels, profiles, globes and fixtures for indoor and outdoor uses
Appliances
• Dispensers, vending machines, refrigerator interior compartments and linings
Medical
• Diagnostic cuvettes, meter housings, protective caps and covers
Housewares
• Shelving, storage containers, faucet accessories and tabletop
Architectural
• Block windows, carport roofing and lighting

General-Purpose Grades

<table>
<thead>
<tr>
<th>Properties</th>
<th>Test Methods</th>
<th>Units</th>
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</thead>
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<tr>
<td>Melting Point</td>
<td>ASTM D 1370</td>
<td>°F/°C</td>
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<tr>
<td>Tensile Strength</td>
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<td>psi</td>
</tr>
<tr>
<td>Tensile Modulus</td>
<td>ASTM D 638</td>
<td>psi</td>
</tr>
<tr>
<td>Elastic Modulus</td>
<td>ASTM D 790</td>
<td>psi</td>
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<td>Heat Deflection Temp. Under Load</td>
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<tr>
<td>Vicat Softening Temp.</td>
<td>ASTM D 1525</td>
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<td>Flammability</td>
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<td>Relative Thermal Index</td>
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Impact-Modified Grades

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<tr>
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<th>Units</th>
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<tr>
<td>Impact Strength load (Notched)</td>
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<tr>
<td>Flaming Weight</td>
<td>ASTM D 320Q/E</td>
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Medical Grades

<table>
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<tr>
<th>Properties</th>
<th>Test Methods</th>
<th>Units</th>
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