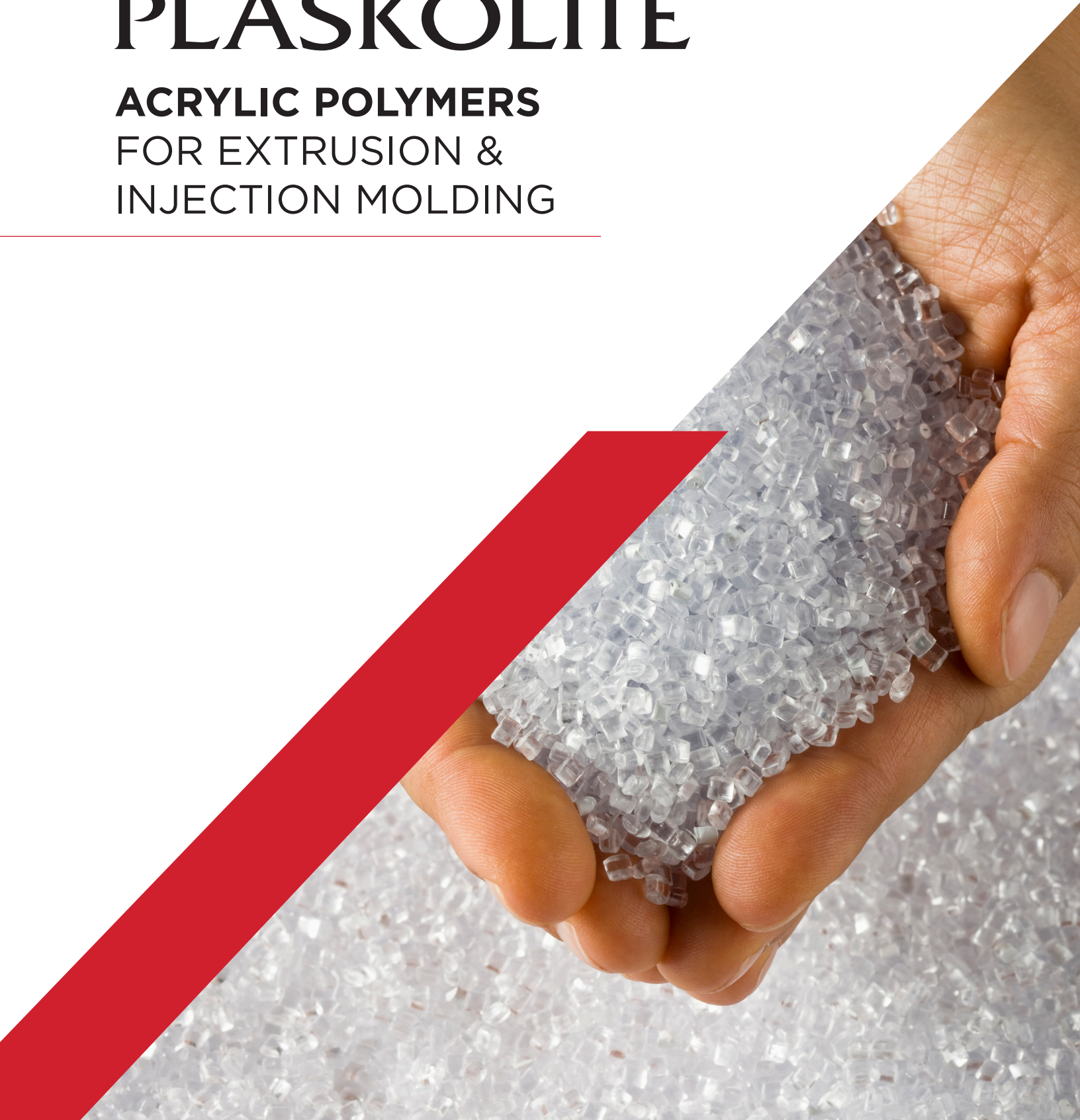


PLASKOLITE

ACRYLIC POLYMERS
FOR EXTRUSION &
INJECTION MOLDING



GENERAL PURPOSE GRADES

Maximum flow injection molding grade	Injection molding and extrusion grade with medium flow and medium heat resistance	Injection molding and extrusion grade with medium flow and medium heat resistance	Injection molding and extrusion grade with medium flow and good heat resistance	Injection molding and extrusion grade with medium flow and higher heat resistance	Injection molding and extrusion grade with medium flow and high heat resistance	Extrusion grade with high heat resistance	Injection molding grade with high heat resistance	Injection molding and extrusion grade with highest heat resistance	Extrusion grade with high heat and chemical resistance
CA-41	CA-51	CA-68	CA-61	CA-71	CA-75	CA-81	CA-82	CA-86	CA-87
92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49
25	15	8.0	6.0	4.3	3.2	2.2	2.5	1.6	0.7
7,800 (54)	8,100 (56)	8,000 (55)	9,600 (66)	9,800 (68)	10,300 (71)	10,500 (72)	10,500 (72)	10,500 (72)	12,000 (83)
2.5	2.6	2.9	3.2	2.7	3.1	4.6	4.0	5.0	6.0
408,000 (2,800)	419,000 (2,900)	420,000 (2,900)	430,000 (3,000)	470,000 (3,200)	470,000 (3,200)	450,000 (3,100)	450,000 (3,100)	470,000 (3,200)	440,000 (3,000)
11,700 (81)	14,000 (97)	16,000 (110)	17,000 (117)	18,000 (124)	17,500 (121)	16,100 (111)	17,100 (118)	17,000 (117)	20,000 (138)
420,000 (2,900)	432,000 (3,000)	440,000 (3,000)	490,000 (3,400)	520,000 (3,600)	500,000 (3,400)	450,000 (3,100)	450,000 (3,100)	450,000 (3,100)	500,000 (3,400)
0.30 (16)	0.30 (16)	0.30 (16)	0.30 (16)	0.35 (19)	0.35 (19)	0.35 (19)	0.35 (19)	0.35 (19)	0.35 (19)
2.0 (0.23)	2.0 (0.23)	2.0 (0.23)	2.0 (0.23)	2.0 (0.23)	2.0 (0.23)	2.0 (0.23)	2.0 (0.23)	2.0 (0.23)	2.0 (0.23)
84	89	91	93	93	95	92	92	96	95
182 (83)	196 (91)	207 (97)	213 (101)	224 (107)	227 (108)	214 (101)	211 (100)	227 (108)	217 (103)
163 (73)	177 (81)	196 (91)	193 (89)	200 (93)	212 (100)	205 (96)	204 (96)	207 (97)	201 (94)
6	6	6	6	6	6	6	6	6	6
0.2-0.6	0.2-0.6	0.2-0.6	0.2-0.6	0.2-0.6	0.2-0.6	0.2-0.6	0.2-0.6	0.2-0.6	0.2-0.6
1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19
HB	HB	HB	HB	HB	HB	HB	HB	HB	HB
50	85, f2	50	50	50	90, f1	90, f1	90, f1	90	-
0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
-	-	-	Listed	Listed	Listed	-	Listed	-	-
0111V7	0111V5	0121V4	0121V4	0141V3	0141V3	0131V2	0131V2	0141V1	0131V1

PRODUCTS

General-Purpose Grades

PLASKOLITE offers a wide variety of OPTIX® General Purpose (GP) resins for injection molding and extrusion processes. Transparent, translucent, opaque and custom 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 superior impact resistance compared to general-purpose acrylic, while maintaining excellent optical properties. Some of PLASKOLITE's impact-modified grades are produced to resist gamma-ray or ethylene oxide 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 development services are available.

CHARACTERISTICS

Clarity and Brilliance

- » Crystal clarity, over 92% light transmittance

Impact Modified

- » Superior impact resistance compared to general-purpose grades

UV Grades

- » Ultraviolet light transmissions can be adjusted from high UV transmitting 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 alkalis, 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 metallization

Machineability

- » Drill, thread, tap, rout and other machining operations

Ease of Assembly

- » Cementing and ultrasonic welding easily provide strong bonds

Dimensional Stability

- » Strong, durable, and reliable

APPLICATIONS

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

Appliance

- » Dispensers, vending machines, refrigerator interior compartments and linings

Medical

- » Diagnostic cuvettes, meter housings, protective caps and covers

Houseware

- » Shelving, storage containers, faucet accessories and tableware

Architectural

- » Block windows, carport roofing and lighting

Film

- » Outdoor road / transportation signs

GENERAL INFORMATION

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 extrusion and injection molding processes.

PLASKOLITE

A GLOBAL LEADER IN THE PRODUCTION OF THERMOPLASTIC SHEET

FOUNDED IN 1950

Our Mission: to deliver superior thermoplastic sheet, coatings and polymers to the world, through long-lasting customer relationships and hands-on customer service.

MANUFACTURING LOCATIONS



From our founding, PLASKOLITE strives to treat our employees, our customers, our community and the world, with kindness, dignity and respect. This drives our continuing effort to create sustainable products, in a sustainable manner, for future generations. This on-going commitment is expressed in the

PLASKOLITE Sustainable Ecosystem:

QUICK FACTS

STATUS: Privately held

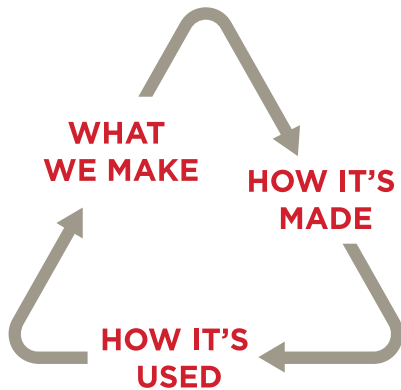
GLOBAL HEADQUARTERS: Columbus, OH

EMPLOYEES: 1900 Worldwide

MARKETS SERVED: Signage, Lighting, Retail Display, Construction, Transportation, Security, Bath & Spa, Industrial, Architecture, Green Houses, Film

OUR PILLARS OF SUSTAINABILITY

EACH CONTRIBUTES TO MAKING THE WORLD A BETTER PLACE



WHAT WE MAKE

Versatile, high-quality, durable thermoplastic materials...not single-use plastics

HOW IT'S MADE

How we make our products reflects our overall philosophy of continuous environmental improvement

HOW IT'S USED

Our thermoplastics play an important role in advancing human well-being, energy conservation and quality of life

These suggestions and data are based on information we believe to be reliable. They are offered in good faith, but without guarantee, as conditions and methods of use are beyond our control. We recommend that the prospective user determines the suitability of our materials and suggestions before adopting them on a commercial scale.

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