

Real solutions. Real clear choice.

When your application has to be strong but lightweight, or rigid yet flexible, sometimes the choice in clear materials isn't always apparent. Our experts are here to provide valuable guidance to determine your product needs and meet your goals. With the industry's most comprehensive transparent specialty, engineering, and commodity portfolio, it's clear that we have the right material for you.



| Type of Material | Tradename(s) | Transmission % | Refractive Index | FDA Compliant | Flame Retardant | UV Stabilized | Impact Modified | Advantages |
|--|--|----------------|------------------|---------------|-----------------|---------------|-----------------|--|
| Clarified Polypropylene (RCPP) | Chase Plastics CP PRYME® PP | Variable | 1.47 | • | | | | <ul style="list-style-type: none"> • Good cost vs. performance • Excellent processability • No drying required • Excellent chemical resistance |
| Copolyester | SK Chemicals Ecozen® Copolyester | 89 | 1.56 | • | Up to V-2 | | • | <ul style="list-style-type: none"> • Bio-based • Good chemical resistance and toughness • Excellent processability and flow |
| Ethylene Vinyl Acetate (EVA) | Formosa Plastics Corporation TAISOX® EVA LG Chem EVA TPI Polene EVA | Variable | 1.48 | • | | | | <ul style="list-style-type: none"> • Good flexibility • Low cost • Sealable for use in films • Commonly used for adhesives |
| Glycol-Modified Polyethylene Terephthalate (PETG) Polycyclohexylenedimethylene terephthalate (PCTG) | SK Chemicals Skygreen® PCTG & PETG | 90 | 1.57 | • | | | | <ul style="list-style-type: none"> • PCTG grades available for improved toughness • Not prone to stress weathering • Good toughness • Good chemical resistance • Shorter thermoforming cycles compared to PC and PMMA |
| Methyl Methacrylate Acrylonitrile Butadiene Styrene (MABS) | LG Chem MABS Toray TOYOLAC™ MABS | 88 | 1.54 | • | | | | <ul style="list-style-type: none"> • Excellent processability and high flow • Good toughness and strength • Good gloss • Good chemical resistance |
| Polycarbonate (PC) | Chase Plastics CP PRYME® PC Idemitsu Tarflon™ PC LG Chem Lupoy® PC Mitsubishi Iupilon® PC | 91 | 1.58 | • | • | • | • | <ul style="list-style-type: none"> • Outstanding toughness • Good dimensional stability • High heat resistance |
| PC Copolymer | SABIC's Specialties business LEXAN™ Copolymer PC | 91 | 1.58 | • | • | • | • | <ul style="list-style-type: none"> • Excellent processability • Excellent impact resistance • Good dimensional and color stability |

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| Polyetherimide (PEI) | SABIC's Specialties business ULTEM™ Resin | 90 | 1.68 | ● | ● | | ● | <ul style="list-style-type: none"> Long-term high heat capability High strength and modulus at high temperatures Good dimensional stability Excellent chemical resistance |
| Polymethyl Methacrylate (PMMA/Acrylic) | LG MMA PMMA Plaskolite OPTIX® PMMA | 92 | 1.49 | ● | | ● | ● | <ul style="list-style-type: none"> Good scratch resistance Good dimensional stability |
| Polymethylpentene Copolymer (PMP) | Mitsui Plastics TPX™ PMP | 94 | 1.46 | ● | | | | <ul style="list-style-type: none"> Outstanding chemical resistance Excellent heat resistance Lowest specific gravity of all thermoplastics No drying required |
| Polystyrene (PS) | Chase Plastics CP PRYME® PS Chi Mei Polyrex® PS | 92 | 1.59 | ● | | | | <ul style="list-style-type: none"> Good chemical resistance Good cost vs. performance |
| Polysulfones | Solvay Specialty Polymers Radel® PPSU Solvay Specialty Polymers Udel® PSU Solvay Specialty Polymers Veradel® PESU | 77 85 76 | 1.65 1.63 1.67 | ● ● ● | ● ● ● | | | <ul style="list-style-type: none"> Long-term high heat capability Excellent chemical resistance Autoclavable (over 1,000 cycles) Good dimensional stability |
| Polyvinyl Chloride (PVC) | Americhem PVC Sylvin Compounds PVC | 76 | 1.53 | ● | ● | | | <ul style="list-style-type: none"> 40A to 75D durometer hardness range Excellent flexibility |
| Styrene Acrylonitrile (SAN) | Chase Plastics CP PRYME® SAN LG Chem SAN | 88 | 1.56 | ● | | | | <ul style="list-style-type: none"> Good dimensional stability Good cost vs. performance Excellent chemical resistance |
| Styrene Butadiene Block Copolymer (SBC) | Chi Mei KIBITON® Q-Resin SBC | 90.5 | 1.57 | ● | | | | <ul style="list-style-type: none"> 71D durometer hardness Excellent toughness Good cost vs. performance |
| Styrenic Thermoplastic Elastomer (TPE-S) | Kraiburg THERMOLAST® TPE Teknor Apex Monprene® | Variable | Variable | ● | | | | <ul style="list-style-type: none"> Lowest durometer hardness of all thermoplastics (down to 30A) Excellent resilience |
| Thermoplastic Polyurethane (TPU) | Huntsman AVALON® TPU Huntsman IROGRAN® TPU | 88 | 1.49 | ● | ● | ● | | <ul style="list-style-type: none"> 56A to 65D durometer hardness range Excellent wear and abrasion resistance |
| Transparent Nylons (PA) | Evonik TROGAMID® Nylon LANXESS Corporation Durethan® Nylon | 85-92 | 1.51-1.59 | ● | ● | | | <ul style="list-style-type: none"> Excellent processability and flow Outstanding chemical resistance Excellent toughness Low water absorption and density compared to standard nylons Good weatherability |



Contact your Chase Plastics' representative or call Chase Plastics directly at 800-232-4273 for more information



6467 Waldon Center Drive • Clarkston, MI 48346
248-620-2120 • orders 800-232-4273



fax 248-620-3192
ChasePlastics.com

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