

# 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"> <li>• Good cost vs. performance</li> <li>• Excellent processability</li> <li>• No drying required</li> <li>• Excellent chemical resistance</li> </ul>
Copolyester	SK Chemicals Ecozen® Copolyester	89	1.56	•	Up to V-2		•	<ul style="list-style-type: none"> <li>• Bio-based</li> <li>• Good chemical resistance and toughness</li> <li>• Excellent processability and flow</li> </ul>
Ethylene Vinyl Acetate (EVA)	Formosa Plastics Corporation TAISOX® EVA LG Chem EVA TPI Polene Polene® EVA	Variable	1.48	•				<ul style="list-style-type: none"> <li>• Good flexibility</li> <li>• Low cost</li> <li>• Sealable for use in films</li> <li>• Commonly used for adhesives</li> </ul>
Glycol-Modified Polyethylene Terephthalate (PETG) Polycyclohexylenedimethylene terephthalate (PCTG)	SK Chemicals Skygreen® PCTG & PETG	90	1.57	•				<ul style="list-style-type: none"> <li>• PCTG grades available for improved toughness</li> <li>• Not prone to stress weathering</li> <li>• Good toughness</li> <li>• Good chemical resistance</li> <li>• Shorter thermoforming cycles compared to PC and PMMA</li> </ul>
Methyl Methacrylate Acrylonitrile Butadiene Styrene (MABS)	LG Chem MABS Toray TOYOLAC™ MABS	88	1.54	•				<ul style="list-style-type: none"> <li>• Excellent processability and high flow</li> <li>• Good toughness and strength</li> <li>• Good gloss</li> <li>• Good chemical resistance</li> </ul>
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"> <li>• Outstanding toughness</li> <li>• Good dimensional stability</li> <li>• High heat resistance</li> </ul>
PC Copolymer	SABIC's Specialties business ELCRES™ & LEXAN™ Copolymer PC	91	1.58	•	•	•	•	<ul style="list-style-type: none"> <li>• Excellent processability</li> <li>• Excellent impact resistance</li> <li>• Good dimensional and color stability</li> </ul>

Type of Material	Tradename(s)	Transmission %	Refractive Index	FDA Compliant	Flame Retardant	UV Stabilized	Impact Modified	Advantages
Polyetherimide (PEI)	SABIC's Specialties business ULTEM™ Resin	90	1.68	•	•		•	<ul style="list-style-type: none"> <li>• Long-term high heat capability</li> <li>• High strength and modulus at high temperatures</li> <li>• Good dimensional stability</li> <li>• Excellent chemical resistance</li> </ul>
Polymethyl Methacrylate (PMMA/Acrylic)	LX MMA PMMA Plaskolite OPTIX® PMMA	92	1.49	•		•	•	<ul style="list-style-type: none"> <li>• Good scratch resistance</li> <li>• Good dimensional stability</li> </ul>
Polymethylpentene Copolymer (PMP)	Mitsui Plastics TPX™ PMP	94	1.46	•				<ul style="list-style-type: none"> <li>• Outstanding chemical resistance</li> <li>• Excellent heat resistance</li> <li>• Lowest specific gravity of all thermoplastics</li> <li>• No drying required</li> </ul>
Polystyrene (PS)	Chase Plastics CP PRYME® PS Chi Mei Polyrex® PS	92	1.59	•				<ul style="list-style-type: none"> <li>• Good chemical resistance</li> <li>• Good cost vs. performance</li> </ul>
Polysulfones	Syensqo Specialty Polymers Radel® PPSU Syensqo Specialty Polymers Udel® PSU Syensqo Specialty Polymers Veradel® PESU	77 85 76	1.65 1.63 1.67	• • •	• • •			<ul style="list-style-type: none"> <li>• Long-term high heat capability</li> <li>• Excellent chemical resistance</li> <li>• Autoclavable (over 1,000 cycles)</li> <li>• Good dimensional stability</li> </ul>
Polyvinyl Chloride (PVC)	Aurora Plastics AuroraFlex™ FPVC Aurora Plastics AuroraTec™ RPVC Sylvin Compounds PVC	76	1.53	•	•			<ul style="list-style-type: none"> <li>• 40A to 75D durometer hardness range</li> <li>• Excellent flexibility</li> </ul>
Styrene Acrylonitrile (SAN)	Chase Plastics CP PRYME® SAN LG Chem SAN	88	1.56	•				<ul style="list-style-type: none"> <li>• Good dimensional stability</li> <li>• Good cost vs. performance</li> <li>• Excellent chemical resistance</li> </ul>
Styrene Butadiene Block Copolymer (SBC)	Chi Mei KIBITON® Q-Resin SBC	90.5	1.57	•				<ul style="list-style-type: none"> <li>• 71D durometer hardness</li> <li>• Excellent toughness</li> <li>• Good cost vs. performance</li> </ul>
Styrenic Thermoplastic Elastomer (TPE-S)	Elastron Elastron G SEBS	Variable	Variable	•				<ul style="list-style-type: none"> <li>• Lowest durometer hardness of all thermoplastics (down to 30A)</li> <li>• Excellent resilience</li> </ul>
Thermoplastic Polyurethane (TPU)	Huntsman AVALON® TPU Huntsman IROGRAN® TPU	88	1.49	•	•	•		<ul style="list-style-type: none"> <li>• 56A to 65D durometer hardness range</li> <li>• Excellent wear and abrasion resistance</li> </ul>
Transparent Polyamides (PA)	Evonik TROGAMID® Nylon ENVALIOR DURETHAN® PA 6I	85-92	1.51-1.59	•	•			<ul style="list-style-type: none"> <li>• Excellent processability and flow</li> <li>• Outstanding chemical resistance</li> <li>• Excellent toughness</li> <li>• Low water absorption and density compared to standard nylons</li> <li>• Good weatherability</li> </ul>

 **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](http://ChasePlastics.com)

The marks identified herein are registered trademarks of their respective owners. Any recommendation by Chase Plastics' personnel for the use of any material is based on tests or experience believed to be reliable. However, since the final processing and use of the product are beyond our control, we make no warranty as to such use or effects incidental to such use, handling or sale. © February 2024. Chase Plastic Services, Inc.