

# 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 material selection, it's clear that we have the right solution 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, flow and high heat resistance</li> </ul>
Ethylene Vinyl Acetate (EVA)	Formosa Plastics Corporation TAISOX® EVA LG Chem EVA TPI 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)	SK Chemicals Skygreen® PCTG & PETG	90	1.27	•				<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 Lupilon® 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 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>
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)	LG MMA PMMA Plaskolite OPTIX® PMMA	92	1.49	•		•	•	<ul style="list-style-type: none"> <li>• Good scratch resistance</li> </ul>



Type of Material	Tradename(s)					Transmission %	Refractive Index	FDA Compliant	Flame Retardant	UV Stabilized	Impact Modified	Advantages							
Polymethylpentene Copolymer (PMP)	Mitsui Plastics TPX® PMP					94	1.46	●					<ul style="list-style-type: none"><li>Outstanding chemical resistance</li><li>Autoclavable</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	Solvay Specialty Polymers Radel® PPSU					77	1.65	●	●				<ul style="list-style-type: none"><li>Long term high heat capability</li><li>Great toughness</li><li>Excellent chemical resistance</li><li>Autoclavable (over 1,000 cycles)</li><li>Good dimensional stability</li></ul>						
	Solvay Specialty Polymers Udel® PSU					85	1.63	●	●										
	Solvay Specialty Polymers Veradel® PESU					76	1.67	●	●										
Polyvinyl Chloride (PVC)	Americhem PVC 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)	Kraiburg® TPE THERMOLAST® Teknor Apex Monprene®					91	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 Nylons (PA)	Evonik TROGAMID® Nylon LANXESS Corporation Durethan® Nylon					85-92	1.51-1.59	●	●	●			<ul style="list-style-type: none"><li>Excellent processability and flow</li><li>Transparency not affected by wall thickness</li><li>Good dimensional stability</li><li>Outstanding chemical resistance</li><li>Excellent toughness</li><li>Low water absorption and density compared to standard nylons</li></ul>						
Application Examples	Copolyester	EVA	MABS	PA	PC	PESU	PETG	PMMA	PMP	PP	PPSU	PS	PSU	PVC	SAN	SBC	TPE	TPU	
Appliances	●		●	●	●	●	●	●	●	●	●	●	●	●	●		●		
Lenses	●			●	●	●		●			●		●						
Lighting		●	●		●	●	●	●	●		●	●	●						
Medical Devices	●	●	●	●	●		●	●	●	●	●		●	●			●	●	
Office Supplies		●	●		●		●	●		●		●		●	●			●	
Packaging	●	●	●		●	●	●	●	●	●	●	●	●	●	●	●		●	
Tubing				●	●	●	●			●	●		●	●			●	●	



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