ChasePlastics®
Redefining Resin Distribution®

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	•				• Good cost vs. performance • Excellent processability • No drying required • Excellent chemical resistance
Copolyester	SK Chemicals Ecozen® Copolyester	89	1.56	•	Up to V-2	•	•	• Bio-based • Good chemical resistance and toughness • Excellent processability, flow and high heat resistance
Ethylene Vinyl Acetate (EVA)	LG Chem EVA TPI Polene® EVA	Variable	1.48	•				• Good flexibility • Low cost • Sealable for use in films • Commonly used for adhesives
Glycol-Modified Polyethylene Terephthalate (PETG)	SK Chemicals Skygreen® PCTG & PETG	90	1.27	•				• 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	•				• 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	•	•	•	•	• Outstanding toughness • Good dimensional stability • High heat resistance
PC Copolymer	SABIC's Specialties business LEXAN™ Copolymer PC	91	1.58	•	•	•	•	• Excellent processability • Excellent impact resistance • Good dimensional and color stability
Polyetherimide (PEI)	SABIC's Specialties business ULTEM™ Resin	90	1.68	•	•		•	• 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	•		•	•	• Good scratch resistance

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	•				• Outstanding chemical resistance • Autoclavable • 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	•				• 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	• • •	• • •			• Long term high heat capability • Great toughness • Excellent chemical resistance • Autoclavable (over 1,000 cycles) • Good dimensional stability
Polyvinyl Chloride (PVC)	Americhem PVC Sylvin Compounds PVC	76	1.53	•	•			• 40A to 75D durometer hardness range • Excellent flexibility
Styrene Acrylonitrile (SAN)	Chase Plastics CP PRYME® SAN LG Chem SAN	88	1.56	•				• 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	•				• 71D durometer hardness • Excellent toughness • Good cost vs. performance
Styrenic Thermoplastic Elastomer (TPE-S)	Kraiburg® TPE THERMOLAST® Teknor Apex Monprene®	91	Variable	•				• Lowest durometer hardness of all thermoplastics (down to 30A) • Excellent resilience
Thermoplastic Polyurethane (TPU)	Huntsman AVALON® TPU Huntsman IROGRAN® TPU	88	1.49	•	•	•		• 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	•	•	•		• Excellent processability and flow • Transparency not affected by wall thickness • Good dimensional stability • Outstanding chemical resistance • Excellent toughness • Low water absorption and density compared to standard nylons

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				•	•	•	•			•	•		•	•			•	•

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

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