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Applications Asaflex™

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Injection Molding

Transparent, crack-resistant food containers, cosmetics caps,
and many other parts and containers
with inherent resistance to sharp-edged fragmentation.

Typical end products	Photo	Typical formulations	Functional effects, enhancements	Recommended grades
Dessert cups	Photo in preparation	neat Asaflex™	Transparency, impact resistance. Low-temp. impact resistance.	Asaflex™ 800S 805 845
Garment hangers		neat Asaflex™	Transparency, superior balance of impact resistance and rigidity.	Asaflex™ 800S 805 825 840
Plastic model parts		neat Asaflex™	Enables combination of transparency and crack resistance. Softer touch than PC, acrylic, other hard plastics. Capability for PVC replacement.	Asaflex™ 810
Shaver head cases		neat Asaflex™	Excellent engagement, optimal hardness-flexure combination; smooth, pinless closure.	Asaflex™ 800S 805
Camera filter cases		neat Asaflex™	Transparency, impact resistance. Excellent hinge properties.	Asaflex™ 800S 805
Toothbrush carrying cases	Photo in preparation	neat Asaflex™	Superior balance of transparency, impact resistance, rigidity.	Asaflex™ 805
Goggle cases		neat Asaflex™	Superior balance of transparency, impact resistance, rigidity.	Asaflex™ 800S 805 825
Cosmetics caps		neat Asaflex™	Superior, high-level balance of transparency and rigidity. Excellent engagement. Excellent resistance to cracking in repeated use.	Asaflex™ 800S 805 825


Sheet Extrusion






Low-cost, impact-resistant, highly reworkable extruded sheets from GPPS blends with Asaflex™, for packaging, food containers, and many other applications.

Typical end products	Photo	Typical formulations	Functional effects, enhancements	Recommended grades
Blister packs		Asaflex™/SC*	High transparency together with high impact resistance. Minimal crazing or whitening at corners or edges under bending. Deep-drawing capability. Lower density than rigid PVC and PET.	Asaflex™ 815 835
Transparent drink cups		Asaflex™/GPPS Asaflex™/SC*	Heightened impact resistance with no loss in transparency. Good cup stacking properties.	Asaflex™ 835 845
Food trays		Asaflex™/ Tufprene™/GPPS Tufprene™/GPPS	Heightened impact resistance at ordinary and low temp. Pellet configuration, for easy blending in extruding machine. With both Asaflex™ and Tufprene™: outstanding deep-drawing characteristics; minimal crazing or whitening at corners or edges under deep drawing.	Asaflex™ 810 815 835 845 Tufprene™ A 125 126S
IC carrier tapes	Photo in preparation	Asaflex™/GPPS/HIPS	Superior balance of high-level transparency, softening point, impact resistance.	Asaflex™ 825 830
Food containers		Asaflex™/Tufprene™/ GPPS Tufprene™/GPPS	Heightened impact resistance at ordinary and low temp., with small-quantity Asaflex™ addition. Pellet configuration, for easy blending in extruding machine.	Asaflex™ 810 830 835 Tufprene™ A 125 126S

Film Fabrication

Moisture-permeable films for food and other containers, and shrink films with excellent printability.

Typical end products	Photo	Typical formulations	Functional effects, enhancements	Recommended grades
Shrink labels for PET bottles		Asaflex™/SC*	Superior shrink characteristics in drawn film from either Asaflex™ or Asaflex™/SC*. Low natural shrinkage.	Asaflex™ 825 830
Laminate film for food containers		Asaflex™/GPPS	Superior film elongation with small-quantity Asaflex™	Asaflex™ 810 825

			addition.	840
Profile Extrusion				
Moisture-permeable films for food and other containers, and shrink films with excellent printability.				
Typical end products	Photo	Typical formulations	Functional effects, enhancements	Recommended grades
IC magazine rails		Asaflex™/SC* Asaflex™/SC*/HIPS	High transparency together with high folding endurance. Superior moldability. Superior stiffness. Lower density than rigid PVC and PET.	Asaflex™ 825
Blow Molding				
Ampoules, tubes, and other containers for food and other products, and for toys and many other articles, with high transparency, uniform thickness, and inherent resistance to sharp-edged fragmentation.				
Typical end products	Photo	Typical formulations	Functional effects, enhancements	Recommended grades
Gardening ampoules		neat Asaflex™	High transparency, low-temp. impact resistance in blow-molded ampoules. Superior moldability.	Asaflex™ 825 840
Glue containers		neat Asaflex™	Transparency, impact resistance. Printability superior to polyolefins, direct printing capability.	Asaflex™ 840
Transparent megaphones		neat Asaflex™	Transparency, impact resistance. Deeper sound than with PET. Excellent color development.	Asaflex™ 840

*SC: Styrenic copolymer from PS Japan Corp. similar to Asaflex™ in refraction index; sheets produced from SC-Asaflex™ blends show transparency and impact resistance levels unattainable with GPPS; supplied by PS Japan Corp.

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 - Any application involving implantation in the human body.
 - Any application involving more than 30 days of continuous contact with the human body (or with blood and other bodily fluids).
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