AsahiKASEI

TUFTEC™ H1221

SEBS: Hydrogenated Styrenic Thermoplastic Elastomer

Essentials

Asahi Kasei Tuftec™ H1221 is specially designed as a modifier to increase flexibility of polypropylene (PP). Its excellent compatibility makes H1221 ultra-finely dispersed into PP. PP and H1221 blends provide transparent PP sheets and films with excellent flexibility and resistance to hazing or whitening on bending. The excellent adhesion is suitable for the use of adhesive layer of protective films with hot-melt and pressure sensitive characteristics. H1221 meets USP Class VI standards. It may be used for medical applications after a special agreement with Asahi Kasei.

Applications

Excellent substitute for PVC due to unique combination of transparency and flexibility of PP/H1221 blends. Transparent apparel packaging and carrying cases. Folders and toys, enabled by flexibility and absence of hazing and whitening at folds and bends. Soft, comfortable surface feel, enabling excellent elastic films for bag liners, tarpaulins, signboards, and other products. Compatibilizer. Base polymer for SEBS molding compounds. Adhesives and sealants component. Substrates of fastening tapes for protective sheets, logos, lines on sportswear, sports shoes, transparent tote bags, waterproof bag linings, tarpaulins, work aprons, and diaper backing sheets.

Basic Characteristics of Tuftec™ H1221

Property	Test Method	Value
Specific Gravity (g/cm3)	ISO 1183	0.89
MFR (g/10 min) 230 °C, 2.16 kg Load	ISO 1133	4.5
Hardness Durometer Type A	ISO 7619	42
Tensile Strength (MPa) Dumbbell: Type 1A 500 mm/min	ISO 37	9.5
Elongation (%) Dumbbell: Type 1A 500 mm/min		980
300% Tensile Stress (MPa)		1.0
Styrene / Ethylene-Butylene Ratio	Asahi Kasei Method	12/88
Physical Form	-	Pellet

Please note that all data and values are given as typical results obtained with the indicated test methods for purposes of basic reference in grade selection only, and not as any product specification or warranty of any nature, and are subject to change without notice.

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