

TUFTEC™ P5051

SEBS: Hydrogenated Styrenic Thermoplastic Elastomer

Essentials

Asahi Kasei Tuftec™ P5051 is a selectively hydrogenated polymer. It is used as a compatibilizer of PS and PP blends or as an impact modifier of GPPS, HIPS and PPE.

Applications

Primarily for compatibilization between styrenic and olefinic polymers. Properties highly advantageous for food container applications, e.g. microwave food trays, portioned food containers, lunchbox laminated films.

Basic Characteristics of Tuftec™ P5051

| Property | Test Method | Value |
|---|--------------------|--------|
| Specific Gravity (g/cm ³) | ISO 1183 | 0.94 |
| MFR (g/10 min) 190°C, 2.16 kg Load | ISO 1133 | 3.0 |
| Hardness Durometer Type A | ISO 7619 | 93 |
| Tensile Strength (MPa) Dumbbell: Type 1A 10 mm/min | ISO 37 | 31.0 |
| Elongation (%) Dumbbell: Type 1A 500 mm/min | | 700 |
| 300% Tensile Stress (MPa) | | 7.0 |
| Styrene (Ethylene/Butylene) | Asahi Kasei Method | 47/53 |
| 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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