

Technical Data Sheet

HEXAS EL-9153

General Properties and Applications

EL9153 is a clear, linear triblock copolymer based on styrene and isoprene, with a polystyrene content of 16%. EL9153 is used as an ingredient in formulating adhesives, sealants and coatings. It also could be used as modifier of bitumen and plastic.

Application:

Pressure sensitive adhesives, Sealants, Road marking paint, Bitumen modification, Waterproof membrane adhesive, Hygiene adhesive.

Specifications

| Test Items | Unit | Sales Specification range |
|---------------------|------------------|---------------------------|
| Polystyrene content | wt% | 13 to 17 |
| Di-block Content | Di-block Content | 18 to 22 |
| Melt Flow rate | g/10min | 13 to 17 |
| Tensile Strength | Mpa | ≥7 |
| Elongation at Break | % | ≥1000 |
| Solution Viscosity | mPa.s | 800 to 1600 |
| Volatile Matter | Wt% | ≤0.7 |
| Ash | Wt% | ≤0.2 |

Typical Value

| Test Items | Unit | Sales Specification range |
|---------------------|------------------|---------------------------|
| Polystyrene content | wt% | 14 |
| Di-block Content | Di-block Content | 20.75 |
| Melt Flow rate | g/10min | 15 |
| Tensile Strength | Mpa | 29.7 |
| Elongation at Break | % | 1246 |
| Solution Viscosity | mPa.s | 1071 |
| Volatile Matter | Wt% | 0.43 |
| Ash | Wt% | 0.07 |
| Mn(SIS) | - | 130000 |
| Mn(SI) | - | 60000 |

Regulatory/Classifications

CAS No. 25038-32-8

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USA - Food and Drug Administration (FDA)

When used unmodified for food contact applications the styrene-isoprene block copolymer product(s) listed in the table above will comply with the U.S. Food, Drug, and Cosmetic Act as amended under Food Additive Regulation 21 CFR 177.1810 (b)(2) with the following limitations: In addition, the styrene-isoprene block copolymer product(s) listed in the table above will also comply with the following:

US FDA: 21 CFR 175.105 Adhesives

21 CFR 177.2600 Rubber articles intended for repeated use.

21 CFR 175.125 Pressure sensitive adhesives.

21 CFR 175.300 Resinous and polymeric coatings

21 CFR 176.170 Components of paper and paperboard in contact with aqueous and fatty foods

21 CFR 176.180 Components of paper and paperboard in contact with dry food

21 CFR 175.320: Resinous and Polymeric Coating for Polyolefin Films

21 CFR 177.1210: Closures with Sealing Gaskets for Food Containers.

Other regulatory information is available on request.

Package and Supply

Packing size : 20KG in paper-plastic composite bag: Supplied on shrink-wrapped pallets of 35 bags

Storage

Storage Pelletized forms of resins may block or lump in hot weather climates or if stored near heat sources. Inside storage is recommended and keep at temperature not exceeding 30°C;. The useful life of this product can be affected by storage and handling conditions. When stored in the original unopened container in an enclosed area and protected from moisture, extreme temperatures and contamination, the shelf life of this product is estimated to continue to meet applicable sales specifications for 12 months from the date of manufacture. Shelf Life is a guide not an absolute value. The product should be reanalyzed for critical properties at the end of its shelf life to see if it meets specification for use. Read and understand the Material Safety Data Sheet before using.