

VECTOR® 4113A

Styrene Isoprene Styrene + SI Block Copolymer

Dexco Polymers LP

Message:

VECTOR 4113A

Styrene-Isoprene-Styrene/Styrene-Isoprene (SIS/SI) Block Copolymer

SIS triblock / SI diblock (SIS/SI)(1) copolymer blend.

Contains ~18% SI diblock copolymer.

Low styrene, low viscosity, low modulus copolymer.

Outstanding thermal stability and melt processability.

Supplied as a dense pellet, dusted with talc.

VECTOR styrenic block copolymers find use under certain regulations as articles or as ingredients in articles intended for food contact or medical applications. Please contact your Dexco Polymers agent for a detailed letter of certification or further information.

VECTOR 4113A is a blend of linear, pure styrene-isoprene-styrene triblock and pure styrene-isoprene diblock copolymers. The individual components are produced via proprietary sequential anionic polymerization technology from Dexco Polymers LP, a Dow/ExxonMobil Venture. It is not formulated with the antioxidant TNPP (tris(nonylphenyl) phosphite).

It is a soft SIS/SI block copolymer blend. It is softer than VECTOR 4111A pure triblock copolymer due to the presence of ~18% SI diblock. It is well suited for use in formulating adhesives and in photopolymer plate applications.

| General Information | | | |
|---|-------------------------|-------------------|-----------------|
| Features | Copolymer | | |
| | Food Contact Acceptable | | |
| | Good Processability | | |
| | Good Thermal Stability | | |
| | Low Viscosity | | |
| | Soft | | |
| Uses | Adhesives | | |
| Forms | Pellets | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 0.918 | g/cm ³ | ASTM D792 |
| Melt Mass-Flow Rate (MFR) (200°C/5.0 kg) | 1.0 | g/10 min | ASTM D1238 |
| Solution Viscosity | 1200 | mPa · s | ASTM D2178 |
| Ash Content | 0.3 | wt% | ASTM D1416 |
| Styrene Content | 15.0 | wt% | Internal Method |
| Diblock Content | 18.0 | wt% | Internal Method |
| Volatiles | 0.2 | wt% | Internal Method |
| Hardness | Nominal Value | Unit | Test Method |
| Durometer Hardness (Shore A, 1 sec) | 31 | | ASTM D2240 |
| Elastomers | Nominal Value | Unit | Test Method |
| Tensile Stress ¹ (300% Strain, 25°C) | 1.10 | MPa | ASTM D412 |
| Tensile Strength ² (Yield, 25°C) | 24.8 | MPa | ASTM D412 |
| Tensile Elongation ³ (Break, 25°C) | 1300 | % | ASTM D412 |
| NOTE | | | |

| | |
|----|---------------------|
| 1. | 25 Wt. % in toluene |
| 2. | 25 Wt. % in toluene |
| 3. | 25 Wt. % in toluene |

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