

IROSTIC® S 8743

Thermoplastic Polyurethane Elastomer

Huntsman Corporation

Message:

IROSTIC® is the Huntsman trade name for a range of polyurethane based raw materials for the manufacture of TPU adhesives.

IROSTIC® is globally available in a broad range of base polyol and isocyanate chemistries and can be used as a one or two-component system with IRODUR® cross-linkers.

IROSTIC® "Footwear Adhesives" features:

Very good heat resistance

Good adhesion to various substrates

Good green strength

May be used as one or two component adhesives

High tear resistance

Good hydrolysis resistance

Low temperature flexibility

High peel strength

IROSTIC® "Adhesives" applications:

Footwear

Laminating Adhesives

Do It Yourself

Textiles

Print industry

Bonding of woven / non-woven fabrics

Athletic shoes and sporting goods

Packaging materials

Aerospace and automotive assemblies

| General Information | | | |
|--|-----------------------|--------|-----------------|
| Features | Heat resistance, high | | |
| | Hydrolysis resistance | | |
| Uses | Packaging | | |
| | Textile applications | | |
| | Bonding | | |
| | Adhesive | | |
| Physical | Nominal Value | Unit | Test Method |
| Viscosity-15% solid in MEK ¹ (20°C) | 0.700 - 1.80 | Pa · s | |
| Crystallization Rate | 4.0 - 7.0 | min | Internal method |
| Flowability ² | 145 - 165 | °C | ASTM 28 |
| Processing Temperature | 170 - 190 | °C | |
| SAFT ³ | 142 - 160 | °C | Internal method |
| Activation temperature | 70 - 75 | °C | |
| Hardness | Nominal Value | Unit | Test Method |
| Durometer Hardness ⁴ | | | DIN 53505 |
| Shaw A | 91 - 95 | | DIN 53505 |
| Shaw D | 39 - 42 | | DIN 53505 |

| Elastomers | Nominal Value | Unit | |
|----------------------------|---------------|------|-------------|
| Tensile Strength | | | |
| Yield | 6.00 - 7.00 | MPa | |
| Fracture | 22.0 - 27.0 | MPa | |
| Tensile Elongation (Break) | 1000 - 1300 | % | |
| Additional Information | Nominal Value | Unit | Test Method |

Excellent adhesion to:

paper
PVC
wood
textile
rubber
leather

NOTE

- | | |
|----|---------------------------------------|
| | # viscosities available within grade: |
| 1. | 3 |
| 2. | @ average viscosity |
| 3. | cotton-cotton 0.5 kg load |
| 4. | @ average viscosity |

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