

# KRYSTALGRAN™ PE499-100

Polyurethane (Polyether, Aliphatic)

Huntsman Corporation

Message:

KRYSTALGRAN™PE499-100 is a polyurethane (polyether, aliphatic)(PUR-ether, aliphatic) product. It can be processed by film extrusion and is available in North America. KRYSTALGRAN™PE499-100 applications include thin plates, movies and optics/lenses.

Features include:

Strong adhesion

Good flexibility

Transparency

| General Information   |                                 |      |             |
|---|---------------------------------|------|-------------|
| Features  | Flexibility at low temperatures |      |             |
|   | Good adhesion                   |      |             |
|   | Hydrolysis resistance           |      |             |
|   | Definition, high                |      |             |
|   | aliphatic                       |      |             |
| Uses  | Films                           |      |             |
|   | Optical applications            |      |             |
|   | Sheet                           |      |             |
| RoHS Compliance   | Contact manufacturer            |      |             |
| Forms   | Particle                        |      |             |
| Processing Method   | Film extrusion                  |      |             |
| Hardness  | Nominal Value                   |      | Test Method |
| Durometer Hardness (Shore A)  | 65                              |      | ASTM D2240  |
| Elastomers  | Nominal Value                   | Unit | Test Method |
| Tensile Stress  |                                 |      | ASTM D412   |
| 100% strain   | 1.72                            | MPa  | ASTM D412   |
| 300% strain   | 2.76                            | MPa  | ASTM D412   |
| Tensile Strength (Yield)  | 24.1                            | MPa  | ASTM D412   |
| Tensile Elongation (Break)  | 850                             | %    | ASTM D412   |
| Tear Strength <sup>1</sup>  | 39.4                            | kN/m | ASTM D624   |
| Thermal   | Nominal Value                   | Unit |             |
| Melting Temperature   | 60.0 - 110                      | °C   |             |
| Additional Information  |                                 |      |             |
| Melting Point Range, TMA: 60-110°CLaminating Temperature Range, autoclave: 85-120°C |                                 |      |             |
| NOTE  |                                 |      |             |
| 1.  | C mould                         |      |             |

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#### Recommended distributors for this material

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