

## Eastman Eastar DN114 Copolyester, Natural

Category : Polymer , Thermoplastic , Polyester, TP

### Material Notes:

Applications:LightingProduct Description: Eastar copolyesters are brilliantly clear polymers that have excellent impact strength, chemical resistance, dimensional stability, and low shrinkage. DN114 contains an ultraviolet light inhibitor and a mold release. This product has been GREENGUARD INDOOR AIR QUALITY CERTIFIED®.Information provided by Eastman.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Eastman-Eastar-DN114-Copolyester-Natural.php](http://www.lookpolymers.com/polymer_Eastman-Eastar-DN114-Copolyester-Natural.php)

| Physical Properties         | Metric                                      | English                                      | Comments  |
|-----------------------------|---|--|-----------|
| Specific Gravity            | 1.23 g/cc                                   | 1.23 g/cc                                    | ASTM D792 |
| Linear Mold Shrinkage, Flow | 0.0020 - 0.0050 cm/cm<br>@Thickness 3.20 mm | 0.0020 - 0.0050 in/in<br>@Thickness 0.126 in | ASTM D955 |

| Mechanical Properties     | Metric                       | English                           | Comments                |
|---------------------------|------------------------------|-----------------------------------|-------------------------|
| Hardness, Rockwell R      | 106                          | 106                               | ASTM D785               |
| Tensile Strength at Break | 52.0 MPa                     | 7540 psi                          | ASTM D638               |
| Tensile Strength, Yield   | 45.0 MPa                     | 6530 psi                          | ASTM D638               |
| Elongation at Break       | 325 %                        | 325 %                             | ASTM D638               |
| Elongation at Yield       | 5.0 %                        | 5.0 %                             | ASTM D638               |
| Flexural Strength         | 66.0 MPa                     | 9570 psi                          | ASTM D790               |
| Flexural Modulus          | 1.80 GPa                     | 261 ksi                           | ASTM D790               |
| Izod Impact, Notched      | NB                           | NB                                | ASTM D256               |
| Izod Impact, Unnotched    | NB                           | NB                                | ASTM D4812              |
| Puncture Energy           | 45.0 J<br>@Thickness 3.20 mm | 33.2 ft-lb<br>@Thickness 0.126 in | At Max load; ASTM D3763 |

| Thermal Properties                          | Metric  | English | Comments  |
|---|---------|---------|-----------|
| Deflection Temperature at 0.46 MPa (66 psi) | 72.0 °C | 162 °F  | ASTM D648 |
| Deflection Temperature at 1.8 MPa (264 psi) | 64.0 °C | 147 °F  | ASTM D648 |

| Optical Properties | Metric | English | Comments |
|--------------------|--------|---------|----------|
|--------------------|--------|---------|----------|

| Optical Properties    | Metric | English | Comments <sup>13</sup> |
|-----------------------|--------|---------|------------------------|
| Transmission, Visible | 91 %   | 91 %    | Total; ASTM D1003      |

| Processing Properties | Metric         | English       | Comments |
|-----------------------|----------------|---------------|----------|
| Melt Temperature      | 249 - 271 °C   | 480 - 520 °F  |          |
| Mold Temperature      | 16.0 - 38.0 °C | 60.8 - 100 °F |          |
| Drying Temperature    | 71.0 °C        | 160 °F        |          |
| Dry Time              | 6 hour         | 6 hour        |          |

## Contact Songhan Plastic Technology Co.,Ltd.

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