

# TRIEL® 5550

Thermoplastic Polyester Elastomer  
Samyang Corporation

Message:

TRIEL® 5550 is a Thermoplastic Polyester Elastomer (TPEE) product. It is available in Asia Pacific, Europe, or North America.

| General Information                                      |               |                   |                         |
|----------------------------------------------------------|---------------|-------------------|-------------------------|
| Forms                                                    | Pellets       |                   |                         |
| Physical                                                 | Nominal Value | Unit              | Test Method             |
| Specific Gravity                                         | 1.20          | g/cm <sup>3</sup> | ASTM D792               |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)                | 11            | g/10 min          | ASTM D1238              |
| Molding Shrinkage - Flow                                 | 1.7 to 2.0    | %                 | ASTM D955               |
| Water Absorption (23°C, 24 hr)                           | 0.50          | %                 | ASTM D570               |
| Hardness                                                 | Nominal Value | Unit              | Test Method             |
| Durometer Hardness (Shore D)                             | 55            |                   | ASTM D2240              |
| Mechanical                                               | Nominal Value | Unit              | Test Method             |
| Tensile Strength                                         |               |                   | ASTM D638               |
| Break                                                    | 26.5          | MPa               |                         |
| 5.0% Strain                                              | 10.8          | MPa               |                         |
| 10% Strain                                               | 14.7          | MPa               |                         |
| 50% Strain                                               | 17.7          | MPa               |                         |
| Tensile Elongation (Break)                               | > 400         | %                 | ASTM D638               |
| Flexural Modulus                                         | 178           | MPa               | ASTM D790               |
| Flexural Strength (Yield)                                | 9.32          | MPa               | ASTM D790               |
| Impact                                                   | Nominal Value | Unit              | Test Method             |
| Unnotched Izod Impact                                    |               |                   | ASTM D256               |
| -40°C                                                    | 250 to 270    | J/m               |                         |
| 23°C                                                     | No Break      |                   |                         |
| Thermal                                                  | Nominal Value | Unit              | Test Method             |
| Deflection Temperature Under Load (0.45 MPa, Unannealed) | 102           | °C                | ASTM D648               |
| Vicat Softening Temperature                              | 185           | °C                | ASTM D1525 <sup>1</sup> |
| Melting Temperature                                      | 210           | °C                | ASTM D2117              |
| NOTE                                                     |               |                   |                         |

1. Rate B (120°C/h), Loading 1 (10 N)

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