

# PELPRENE™ P150B-05

Thermoplastic Polyester Elastomer

TOYOBO America, Inc.

Message:

PELPRENE™ P150B-05 is a Thermoplastic Polyester Elastomer (TPEE) product. It is available in North America. Typical application: Automotive.

Characteristics include:

Flame Rated

Low to No Odor/Taste

| General Information                                     |                |                   |             |
|---------------------------------------------------------|----------------|-------------------|-------------|
| UL YellowCard                                           | E51743-242515  |                   |             |
| Features                                                | Low to No Odor |                   |             |
| Physical                                                | Nominal Value  | Unit              | Test Method |
| Specific Gravity                                        | 1.23           | g/cm <sup>3</sup> | ASTM D792   |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)               | 20             | g/10 min          | ASTM D1238  |
| Molding Shrinkage - Flow (2.00 mm)                      | 1.3            | %                 | ASTM D955   |
| Water Absorption (Equilibrium, 23°C, 65% RH)            | 0.36           | %                 | ASTM D570   |
| Hardness                                                | Nominal Value  | Unit              | Test Method |
| Durometer Hardness                                      |                |                   |             |
| Shore A                                                 | 98             |                   | JIS K6301   |
| Shore D                                                 | 57             |                   | ASTM D2240  |
| Mechanical                                              | Nominal Value  | Unit              | Test Method |
| Tensile Strength                                        |                |                   | ASTM D638   |
| --                                                      | 38.0           | MPa               |             |
| 50% Strain                                              | 19.6           | MPa               |             |
| Tensile Elongation (Break)                              | 500            | %                 | ASTM D638   |
| Flexural Modulus                                        | 289            | MPa               | ASTM D790   |
| Compressive Strength (10% Strain)                       | 19.1           | MPa               | ASTM D695   |
| Taber Abrasion Resistance (1000 Cycles)                 | 10.0           | mg                | ASTM D1044  |
| Elastomers                                              | Nominal Value  | Unit              | Test Method |
| Tear Strength                                           | 176            | kN/m              | ASTM D624   |
| Compression Set                                         | 60             | %                 | JIS K6301   |
| Impact                                                  | Nominal Value  | Unit              | Test Method |
| Notched Izod Impact                                     | No Break       |                   | ASTM D256   |
| Thermal                                                 | Nominal Value  | Unit              | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed) | 117            | °C                | ASTM D648   |
| Brittleness Temperature                                 | < -65.0        | °C                | JIS K6301   |
| Vicat Softening Temperature                             | 190            | °C                | ASTM D1525  |
| Melting Temperature                                     | 212            | °C                | DSC         |

|                        |               |          |             |
|------------------------|---------------|----------|-------------|
| CLTE - Flow            | 1.4E-4        | cm/cm/°C | ASTM E831   |
| Electrical             | Nominal Value | Unit     | Test Method |
| Volume Resistivity     | 2.0E+14       | ohms·cm  | ASTM D257   |
| Dielectric Strength    | 30            | kV/mm    | JIS K2111   |
| Flammability           | Nominal Value | Unit     | Test Method |
| Flame Rating           | HB            |          | UL 94       |
| Additional Information | Nominal Value |          | Test Method |
| Resilience             | 59.0          |          | JIS K6301   |

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