

# PTS PPE-LXS314-10

Polyphenylene Ether + PS

Polymer Technology and Services, LLC

## Message:

PTS PPE-LXS314-10 is a Polyphenylene Ether + PS (PPE+PS) product filled with 10% glass fiber. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America. Typical application: Industrial Applications. Primary characteristic: impact resistant.

| General Information  |                                  |                   |             |
|--|----------------------------------|-------------------|-------------|
| Filler / Reinforcement   | Glass Fiber,10% Filler by Weight |                   |             |
| Features   | High Impact Resistance           |                   |             |
| Uses   | Industrial Applications          |                   |             |
| Forms  | Pellets                          |                   |             |
| Physical   | Nominal Value                    | Unit              | Test Method |
| Specific Gravity <sup>1</sup>                                    | 1.15                             | g/cm <sup>3</sup> | ASTM D792   |
| Melt Mass-Flow Rate (MFR) (300°C/5.0 kg)                         | 21                               | g/10 min          | ASTM D1238  |
| Molding Shrinkage - Flow   | 0.30 to 0.50                     | %                 | ASTM D955   |
| Water Absorption (23°C, 24 hr)                                   | 0.10                             | %                 | ASTM D570   |
| Mechanical   | Nominal Value                    | Unit              | Test Method |
| Tensile Strength <sup>2</sup> (Yield)                            | 60.0                             | MPa               | ASTM D638   |
| Tensile Elongation <sup>3</sup> (Break)                          | 10                               | %                 | ASTM D638   |
| Flexural Modulus <sup>4</sup>                                    | 3200                             | MPa               | ASTM D790   |
| Flexural Strength <sup>5</sup>                                   | 110                              | MPa               | ASTM D790   |
| Impact   | Nominal Value                    | Unit              | Test Method |
| Notched Izod Impact (Area)                                       | 14.0                             | kJ/m <sup>2</sup> | ASTM D256   |
| Thermal  | Nominal Value                    | Unit              | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed, 6.40 mm) | 120                              | °C                | ASTM D648   |
| NOTE   |                                  |                   |             |
| 1.   | solid                            |                   |             |
| 2.   | Type I                           |                   |             |
| 3.   | Type I                           |                   |             |
| 4.   | 2.6 mm/min                       |                   |             |
| 5.   | 2.6 mm/min                       |                   |             |

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