

# SUPREME PP SPEXP56

Polypropylene  
Supreme Petrochem Ltd.

Message:

- Characteristics:
- Ignition Resistant - UL94 V0 rated
  - Easy flow & good impact properties
  - Low specific gravity
  - Available in white color
- Applications:
- Electrical enclosures
  - Electrical distribution components, fuse carriers, enclosures
  - Railway Fan Parts

| General Information   |                                    |                   |             |
|---|------------------------------------|-------------------|-------------|
| Features  | Flame Retardant                    |                   |             |
|   | Good Flow                          |                   |             |
|   | Good Impact Resistance             |                   |             |
|   | Ignition Resistant                 |                   |             |
| Uses  | Electrical Parts                   |                   |             |
|   | Electrical/Electronic Applications |                   |             |
| Appearance  | White                              |                   |             |
| Forms   | Pellets                            |                   |             |
| Physical  | Nominal Value                      | Unit              | Test Method |
| Specific Gravity  | 1.05                               | g/cm <sup>3</sup> | ASTM D792   |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)                                 | 10                                 | g/10 min          | ASTM D1238  |
| Mechanical  | Nominal Value                      | Unit              | Test Method |
| Tensile Strength <sup>1</sup> (23°C, 3.20 mm, Injection Molded)           | 24.0                               | MPa               | ASTM D638   |
| Tensile Elongation <sup>2</sup> (Break, 23°C, 3.20 mm, Injection Molded)  | 10                                 | %                 | ASTM D638   |
| Flexural Modulus (23°C, 3.20 mm, Injection Molded)                        | 2200                               | MPa               | ASTM D790   |
| Flexural Strength (23°C, 3.20 mm, Injection Molded)                       | 40.0                               | MPa               | ASTM D790   |
| Impact  | Nominal Value                      | Unit              | Test Method |
| Notched Izod Impact (23°C, 3.20 mm, Injection Molded)                     | 25                                 | J/m               | ASTM D256   |
| Thermal   | Nominal Value                      | Unit              | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed, Injection Molded) | 75.0                               | °C                | ASTM D648   |
| Flammability  | Nominal Value                      |                   | Test Method |

| Flame Rating (1.60 mm) | V-0           | UL 94 |
|------------------------|---------------|-------|
| Injection              | Nominal Value | Unit  |
| Drying Temperature     | 80.0 to 100   | °C    |
| Drying Time            | 1.0 to 2.0    | hr    |
| Processing (Melt) Temp | < 250         | °C    |
| Mold Temperature       | 40.0 to 60.0  | °C    |
| Extrusion              | Nominal Value | Unit  |
| Drying Temperature     | 80.0 to 100   | °C    |
| Drying Time            | 1.0 to 2.0    | hr    |
| Melt Temperature       | < 250         | °C    |
| NOTE                   |               |       |
| 1.                     | 50 mm/min     |       |
| 2.                     | 50 mm/min     |       |

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