

## A. Schulman POLYFLAM™ RPP 1133 Flame Retardant, Copolymer Polypropylene

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene Copolymer

### Material Notes:

Description Polyflam® RPP 1133 is a 30% glass filled, flame retardant copolymer polypropylene compound. Information provided by A. Schulman.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_A-Schulman-POLYFLAM-RPP-1133-Flame-Retardant-Copolymer-Polypropylene.php](http://www.lookpolymers.com/polymer_A-Schulman-POLYFLAM-RPP-1133-Flame-Retardant-Copolymer-Polypropylene.php)

| Physical Properties   | Metric       | English      | Comments   |
|-----------------------|--------------|--------------|------------|
| Specific Gravity      | 1.05 g/cc    | 1.05 g/cc    | ASTM D792  |
| Linear Mold Shrinkage | 0.0040 cm/cm | 0.0040 in/in | ASTM D955  |
| Melt Flow             | 6.0 g/10 min | 6.0 g/10 min | ASTM D1238 |

| Mechanical Properties   | Metric    | English       | Comments  |
|-------------------------|-----------|---------------|-----------|
| Tensile Strength, Yield | 60.0 MPa  | 8700 psi      | ASTM D638 |
| Elongation at Break     | 4.0 %     | 4.0 %         | ASTM D638 |
| Flexural Strength       | 90.0 MPa  | 13100 psi     | ASTM D790 |
| Flexural Modulus        | 7.50 GPa  | 1090 ksi      | ASTM D790 |
| Izod Impact, Notched    | 2.20 J/cm | 4.12 ft-lb/in | ASTM D256 |

| Thermal Properties                          | Metric             | English              | Comments        |
|---------------------------------------------|--------------------|----------------------|-----------------|
| Deflection Temperature at 0.46 MPa (66 psi) | 175 °C             | 347 °F               | ASTM D648       |
| Deflection Temperature at 1.8 MPa (264 psi) | 150 °C             | 302 °F               | ASTM D648       |
| UL RTI, Electrical                          | 105 °C             | 221 °F               | 0.030 in; UL 94 |
| Flammability, UL94                          | V-0                | V-0                  |                 |
|                                             | @Thickness 1.50 mm | @Thickness 0.0591 in |                 |
|                                             | V-0                | V-0                  |                 |
|                                             | @Thickness 3.00 mm | @Thickness 0.118 in  |                 |

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