

## Technical Data Sheet

### Polyflam RIPP 3118 MD NAT

Polypropylene Copolymer

#### Product Description

Talc filled flame retardant PP copolymer compound.

**Processing Method** Injection Molding

**Attribute** Copolymer

**Additive** Flame Retardant

**Filler/Reinforcement** Talc

| Typical Properties                                                  | Nominal Value | Units                   | Test Method   |
|---------------------------------------------------------------------|---------------|-------------------------|---------------|
| <b>Physical</b>                                                     |               |                         |               |
| Melt Volume Flow Rate, (230 °C/2.16 kg)                             | 10            | cm <sup>3</sup> /10 min | ISO 1133      |
| Density, (Method A)                                                 | 1.23          | g/cm <sup>3</sup>       | ISO 1183      |
| <b>Mechanical</b>                                                   |               |                         |               |
| Tensile Stress at Yield, (Type 1A, 50 mm/min)                       | 21.9          | MPa                     | ISO 527-2     |
| Tensile Strain at Yield, (Type 1A, 50 mm/min)                       | 2.5           | %                       | ISO 527-2     |
| Tensile Modulus, (1 mm/min, Type 1A)                                | 2500          | MPa                     | ISO 527-1     |
| <b>Impact</b>                                                       |               |                         |               |
| Charpy Impact Strength - Notched                                    |               |                         |               |
| (23 °C, Type 1, Edgewise, Notch A)                                  | 3.1           | kJ/m <sup>2</sup>       | ISO 179       |
| (-30 °C, Type 1, Edgewise, Notch A)                                 | 1.6           | kJ/m <sup>2</sup>       | ISO 179       |
| Charpy Impact Strength - Unnotched                                  |               |                         |               |
| (23 °C, Type 1, Edgewise)                                           | 50            | kJ/m <sup>2</sup>       | ISO 179       |
| (-30 °C, Type 1, Edgewise)                                          | 18            | kJ/m <sup>2</sup>       | ISO 179       |
| <b>Thermal</b>                                                      |               |                         |               |
| Vicat Softening Temperature                                         |               |                         |               |
| (B (50N), 50 °C/h)                                                  | 66.0          | °C                      | ISO 306       |
| (A (10N), 120 °C/h)                                                 | 146           | °C                      | ISO 306       |
| Deflection Temperature Under Load Unannealed (0.45 MPa), (Flatwise) | 111           | °C                      | ISO 75-2/B    |
| Deflection Temperature Under Load Unannealed (1.80 MPa), (Flatwise) | 69.0          | °C                      | ISO 75-2/A    |
| <b>Electrical</b>                                                   |               |                         |               |
| Volume Resistivity                                                  | >1.0E+13      | ohm*m                   | IEC 62631-3-1 |
| Comparative Tracking Index (CTI)                                    | 600           | V                       | IEC 60112     |
| Surface Resistivity                                                 | >1.0E+15      | ohm                     | IEC 60093     |
| <b>Flammable</b>                                                    |               |                         |               |

|                                       |     |    |                      |
|---------------------------------------|-----|----|----------------------|
| Glow Wire Flammability Index          |     |    |                      |
| (1.5 mm)                              | 960 | °C | IEC 60695-2-12       |
| (3.0 mm)                              | 960 | °C | IEC 60695-2-12       |
| <b>UL Information</b>                 |     |    |                      |
| Flammability Classification, (1.6 mm) | V-0 |    | IEC 60695-11-10, -20 |