

## Technical Data Sheet

### *Polyflam* RPP 1058X Natural

Polypropylene, Unspecified (PP, Unspecified)

#### Product Description

PP Unfilled Flame Retardant PBDE-Free

**Additive** Flame Retardant

| Typical Properties                                     | Nominal Value | Units             | Test Method |
|--------------------------------------------------------|---------------|-------------------|-------------|
| <b>Physical</b>                                        |               |                   |             |
| Density - Specific Gravity                             | 1             | g/cm <sup>3</sup> | ASTM D792   |
| <b>Mechanical</b>                                      |               |                   |             |
| Tensile Strength at Yield, (50 mm/min)                 | 31.0          | MPa               | ASTM D638   |
| Flexural Modulus, (1.3 mm/min)                         | 1600          | MPa               | ASTM D790   |
| Tensile Elongation at Break, (50 mm/min)               | 80            | %                 | ASTM D638   |
| <b>Impact</b>                                          |               |                   |             |
| Notched Izod Impact                                    | 45            | J/m               | ASTM D256   |
| <b>Thermal</b>                                         |               |                   |             |
| Deflection Temperature Under Load Unannealed (264 psi) | 52            | °C                | ASTM D648   |
| Deflection Temperature Under Load Unannealed (66 psi)  | 95            | °C                | ASTM D648   |
| <b>Additional Information</b>                          |               |                   |             |
| Filler Content                                         | 4.5           | %                 | ASTM D5630  |
| <b>UL Information</b>                                  |               |                   |             |
| Flame Rating                                           | V-2           |                   | UL 94       |

| Injection Parameters   | Nominal Value | Units |
|------------------------|---------------|-------|
| Drying Time            | 4             | hr    |
| Drying Temperature     | 82            | °C    |
| Nozzle Temperature     | 177 to 218    | °C    |
| Processing (Melt) Temp | 177 to 218    | °C    |
| Front Temperature      | 177 to 218    | °C    |
| Middle Temperature     | 177 to 204    | °C    |
| Rear Temperature       | 177 to 204    | °C    |
| Injection Rate         | Slow-Moderate |       |
| Back Pressure          | <0.689        | MPa   |
| Mold Temperature       | 32 to 66      | °C    |
| Cushion                | 6.35 to 12.7  | mm    |