

## Technical Data Sheet

### Polyflam RPP 1058 X-1203 WHI



Polypropylene, Unspecified (PP, Unspecified)

#### Product Description

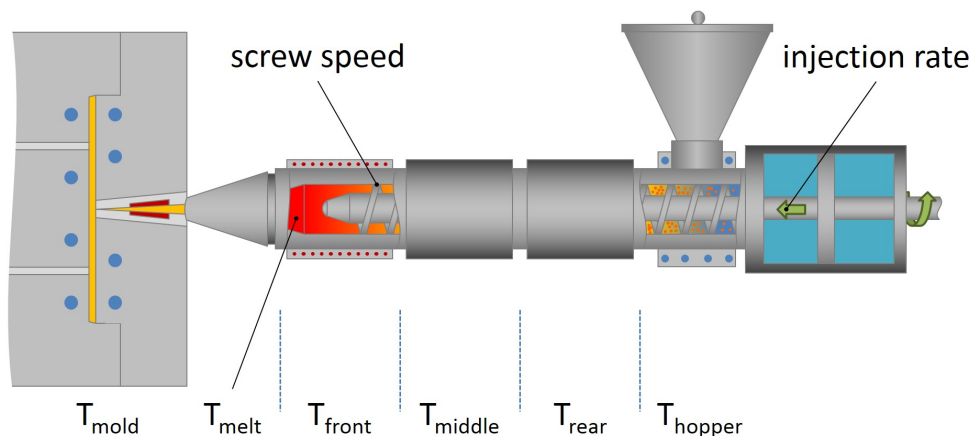
PP Unfilled Flame Retardant PBDE-Free

#### Regulatory Status

For regulatory compliance information, see *Polyflam RPP 1058 X-1203 WHI* [Product Stewardship Bulletin \(PSB\)](#) and [Safety Data Sheet \(SDS\)](#).

|                     |                    |
|---------------------|--------------------|
| <b>Status</b>       | Commercial: Active |
| <b>Availability</b> | North America      |
| <b>Additive</b>     | 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    |

## Notes

These are typical property values not to be construed as specification limits.

## Processing notes

Melt contacting surfaces should be made of a high quality, corrosive resistant steel. Positive experiences have been made with steel qualities containing > 12% chromium.

Avoid processing at very barrel high temperatures or above the recommended melt temperature range as this can increase risk of deposit onto the tool surfaces. Avoid long residence times. At start and end of production, it is recommended to purge clean with non-flame retardant polymer or a polyolefin.

## Processing Techniques

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

## Company Information

For further information regarding the LyondellBasell company, please visit <http://www.lyb.com/>.

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