

## Technical Data Sheet

### Polyflam RHD 200 D GRY



Polyethylene, Unspecified

#### Product Description

Flame retardant PE-HD compound (UL 94 V-2) without PBDE

#### Regulatory Status

For regulatory compliance information, see *Polyflam RHD 200 D GRY* [Product Stewardship Bulletin \(PSB\)](#) and [Safety Data Sheet \(SDS\)](#).

|                          |                                                                        |
|--------------------------|------------------------------------------------------------------------|
| <b>Status</b>            | Commercial: Active                                                     |
| <b>Availability</b>      | Africa-Middle East; Asia-Pacific; Europe; Latin America; North America |
| <b>Processing Method</b> | Injection Molding                                                      |
| <b>Additive</b>          | Flame Retardant                                                        |

| Typical Properties                                                  | Nominal Value | Units                   | Test Method          |
|---------------------------------------------------------------------|---------------|-------------------------|----------------------|
| <b>Physical</b>                                                     |               |                         |                      |
| Melt Volume Flow Rate, (230 °C/2.16 kg)                             | 9.0           | cm <sup>3</sup> /10 min | ISO 1133             |
| Density, (Method A)                                                 | 1.05          | g/cm <sup>3</sup>       | ISO 1183             |
| <b>Mechanical</b>                                                   |               |                         |                      |
| Tensile Stress at Yield, (Type 1A, 50 mm/min)                       | 27.0          | MPa                     | ISO 527-2            |
| Tensile Strain at Yield, (Type 1A, 50 mm/min)                       | 11            | %                       | ISO 527-2            |
| Tensile Modulus, (1 mm/min, Type 1A)                                | 1400          | MPa                     | ISO 527-1            |
| <b>Thermal</b>                                                      |               |                         |                      |
| Vicat Softening Temperature, (A (10N), 120 °C/h)                    | 120           | °C                      | ISO 306              |
| Deflection Temperature Under Load Unannealed (0.45 MPa), (Flatwise) | 75.0          | °C                      | ISO 75-2/B           |
| Deflection Temperature Under Load Unannealed (1.80 MPa), (Flatwise) | 45.0          | °C                      | ISO 75-2/A           |
| <b>Electrical</b>                                                   |               |                         |                      |
| Volume Resistivity                                                  | >1.0E+13      | ohm*cm                  | IEC 60093            |
| 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       |
| Oxygen Index                                                        | 35            | %                       | ISO 4589-2           |
| <b>UL Information</b>                                               |               |                         |                      |
| Flammability Classification                                         |               |                         |                      |
| (1.5 mm)                                                            | V-2           |                         | IEC 60695-11-10, -20 |
| (3.0 mm)                                                            | V-2           |                         | IEC 60695-11-10, -20 |

## Notes

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

## 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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