# Technical Data Sheet

## *Polyflam* RLD 7750

Polyethylene Copolymer

### Product Description

Flame retardant Polyolefin compound with expandable graphite for extrusion and injection molding applications.

| | |
|---|---|
| **Processing Method** | Extrusion |
| **Additive** | Flame Retardant |

| Typical Properties | Nominal Value | Units | Test Method |
|---|---|---|---|
| **Physical** | | | |
| Melt Volume Flow Rate, (230 °C/21.6 kg) | 7.0 | cm³/10 min | ISO 1133 |
| Density, (Method A) | 1.24 | g/cm³ | ISO 1183 |
| **Mechanical** | | | |
| Tensile Stress at Yield, (Type 1A, 50 mm/min) | 4.30 | MPa | ISO 527-2 |
| Tensile Strain at Yield, (Type 1A, 50 mm/min) | 10 | % | ISO 527-2 |
| Tensile Modulus, (1 mm/min, Type 1A) | 200 | MPa | ISO 527-1 |
| **Impact** | | | |
| Charpy Impact Strength - Notched | | | |
| (23 °C, Type 1, Edgewise, Notch A) | 35 | kJ/m² | ISO 179 |
| (-30 °C, Type 1, Edgewise, Notch A) | 10 | kJ/m² | ISO 179 |
| Charpy Impact Strength - Unnotched | | | |
| (23 °C, Type 1, Edgewise) | No Break | | ISO 179 |
| (-30 °C, Type 1, Edgewise) | 28 | kJ/m² | ISO 179 |
| **Hardness** | | | |
| Shore Hardness, (Shore A, 3 sec) | 26 | | ISO 868 |
| **Thermal** | | | |
| Vicat Softening Temperature, (A (10N), 50 °C/h) | 61.0 | °C | ISO 306 |
| Deflection Temperature Under Load Unannealed (0.45 MPa), (Flatwise) | 45.0 | °C | ISO 75-2/B |
| Deflection Temperature Under Load Unannealed (1.80 MPa), (Flatwise) | 33.0 | °C | ISO 75-2/A |
| **Electrical** | | | |
| Volume Resistivity | >1.0E+12 | ohm*m | IEC 62631-3-1 |
| Comparative Tracking Index (CTI) | 600 | V | IEC 60112 |
| Surface Resistivity | >1.0E+14 | ohm | IEC 60093 |
| **Flammable** | | | |
| Glow Wire Flammability Index, (1.5 mm) | 960 | °C | IEC 60695-2-12 |

| | | | |
|---|---|---|---|
| Glow Wire Ignition Temperature | | | |
| (1.5 mm) | 750 | °C | IEC 60695-2-13 |
| (3.0 mm) | 750 | °C | IEC 60695-2-13 |

| Injection Parameters | Nominal Value | Units |
|---|---|---|
| Drying Time | 2 | hr |
| Drying Temperature | 70 | °C |
| Processing (Melt) Temp | <170 | °C |
| Mold Temperature | 40 | °C |