

3M™ Dyneon™ Fluoroplastic FEP 6338Z

Perfluoroethylene Propylene Copolymer

3M Advanced Materials Division

Message:

Features

Dyneon™ FEP 6338 Z Fluorothermoplastic was designed primarily for ultra-high-speed wire extrusion. Its distinguishing features include:

- Low viscosity
- Very high extrusion speed
- High thermal stability
- Wide processing window
- Excellent dielectric properties

| General Information | | | |
|--|----------------------------|-------------------|-------------|
| Features | Copolymer | | |
| | Good Electrical Properties | | |
| | Good Thermal Stability | | |
| | Low Viscosity | | |
| Uses | Wire & Cable Applications | | |
| Forms | Pellets | | |
| Processing Method | Wire & Cable Extrusion | | |
| Physical | Nominal Value | Unit | Test Method |
| Density | 2.15 | g/cm ³ | ISO 12086 |
| Melt Mass-Flow Rate (MFR) (372°C/5.0 kg) | 38 | g/10 min | ISO 1133 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Stress (Break, 23°C) | 20.0 | MPa | ISO 527-1 |
| Tensile Strain (Break, 23°C) | 300 | % | ISO 527-1 |
| Thermal | Nominal Value | Unit | Test Method |
| Melting Temperature | 255 | °C | ISO 12086 |
| Electrical | Nominal Value | Unit | Test Method |
| Dielectric Strength (0.250 mm) | 70 | kV/mm | ASTM D149 |
| Dielectric Constant | | | ASTM D150 |
| 23°C, 1 MHz | 2.05 | | |
| 23°C, 9.40 GHz | 2.04 | | |
| Dissipation Factor | | | ASTM D150 |
| 1 MHz | 5.0E-4 | | |
| 9.40 GHz | 3.0E-4 | | |
| Flammability | Nominal Value | Unit | Test Method |
| Oxygen Index | > 95 | % | ASTM D2863 |

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