

# Hifax DBF 190 D

Polyolefin  
LyondellBasell Industries

Message:

Hifax DBF 190 D is an flexible non halogenated flame retardant compound developed for wire and cable jacketing/shielding isolation based on grades produced by Basell's proprietary Catalloy technology. The grade is designed for an excellent balance of mechanical properties and for a good thermal aging resistance by providing good electrical properties. Hifax DBF 190 D contains metal desactivators for use with metal conductors. It is used by our customers for the production of low voltage cables. The material is available in natural pellet form.

| General Information                       |                               |                   |              |
|---|-------------------------------|-------------------|--------------|
| Additive                                  | Metal Deactivator             |                   |              |
| Features                                  | Copolymer                     |                   |              |
|   | Flame Retardant               |                   |              |
|   | Good Electrical Properties    |                   |              |
|   | Good Flexibility              |                   |              |
|   | Good Heat Aging Resistance    |                   |              |
|   | Good Thermal Aging Resistance |                   |              |
|   | Halogen Free                  |                   |              |
|   | Low Temperature Flexibility   |                   |              |
| Uses                                      | Cable Jacketing               |                   |              |
|   | Low Voltage Insulation        |                   |              |
|   | Wire & Cable Applications     |                   |              |
|   | Wire Jacketing                |                   |              |
| Forms                                     | Pellets                       |                   |              |
| Processing Method                         | Extrusion                     |                   |              |
| Physical                                  | Nominal Value                 | Unit              | Test Method  |
| Density                                   | 1.20                          | g/cm <sup>3</sup> | ISO 1183/A   |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 1.1                           | g/10 min          | ISO 1133     |
| Hardness                                  | Nominal Value                 | Unit              | Test Method  |
| Shore Hardness (Shore D)                  | 41                            |                   | ISO 868      |
| Mechanical                                | Nominal Value                 | Unit              | Test Method  |
| Tensile Stress                            |                               |                   | ISO 527-2/50 |
| Yield, 23°C, 1.00 mm                      | 8.00                          | MPa               |              |
| Break, 23°C                               | 11.0                          | MPa               |              |
| Tensile Strain                            |                               |                   | ISO 527-2/50 |
| Yield, 23°C                               | 15                            | %                 |              |
| Break, 23°C, 1.00 mm                      | 400                           | %                 |              |
| Flexural Modulus                          | 350                           | MPa               | ISO 178      |

| Thermal                     | Nominal Value | Unit | Test Method |
|-----------------------------|---------------|------|-------------|
| Vicat Softening Temperature | 80.0          | °C   | ISO 306/A50 |

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