# Eraclene® PF 92

High Density Polyethylene

Versalis S.p.A.

## Message:

Eraclene PF 92 is a homopolymer high density polyethylene resin (HDPE), with antioxidants, suitable for pipe application. It is characterized by high rigidity, high impact strength and low swelling.
Eraclene PF 92 has an intermediate molecular weight distribution which perfectly balances overall performances with ease of processing.
Main Application
Eraclene PF 92 is recommended for the production of structured wall pipes when high rigidity is required. It can be used for the production of sheets and profiles.

| General Information | |
|---|---|
| Additive | Antioxidant |
| Features | Antioxidant |
| | Food Contact Acceptable |
| | Good Processability |
| | High Density |
| | High Impact Resistance |
| | High Rigidity |
| | Homopolymer |
| | Med.-Wide Molecular Weight Distrib. |
| Uses | Piping |
| | Profiles |
| | Sheet |
| Agency Ratings | EU Food Contact, Unspecified Rating |
| Forms | Pellets |
| Processing Method | Extrusion |
| | Pipe Extrusion |
| | Profile Extrusion |
| | Sheet Extrusion |

| Physical | Nominal Value | Unit | Test Method |
|---|---|---|---|
| Density | 0.960 | g/cm³ | ISO 1183 |
| Melt Mass-Flow Rate (MFR) | | | ISO 1133 |
| 190°C/2.16 kg | 0.70 | g/10 min | |
| 190°C/5.0 kg | 2.6 | g/10 min | |
| **Hardness** | **Nominal Value** | **Unit** | **Test Method** |
| Shore Hardness (Shore D, Compression Molded) | 66 | | ISO 868 |
| **Mechanical** | **Nominal Value** | **Unit** | **Test Method** |

| | | | |
|---|---|---|---|
| Tensile Stress | | | ISO 527-2 |
| Yield, Compression Molded | 31.0 | MPa | |
| Break, Compression Molded | 30.0 | MPa | |
| Tensile Strain (Break, Compression Molded) | > 800 | % | ISO 527-2 |
| Flexural Modulus (Compression Molded) | 1500 | MPa | ISO 178 |
| Thermal | Nominal Value | Unit | Test Method |
| Brittleness Temperature | < -60.0 | °C | ASTM D746 |
| Vicat Softening Temperature | 128 | °C | ISO 306/A |
| Melting Temperature | 138 | °C | Internal Method |
| Extrusion | Nominal Value | Unit | |
| Cylinder Zone 1 Temp. | 170 to 180 | °C | |
| Cylinder Zone 2 Temp. | 185 to 195 | °C | |



## Recommended distributors for this material

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