

EL-Lene™ H5211P

High Density Polyethylene

SCG Chemicals Co., Ltd.

Message:

EL-Lene H5211P is a natural high density polyethylene designed as a general base resin for use in coloured resins for pipe and striping applications.

| General Information | | | |
|---|----------------------------------|-------------------|---------------|
| Features | Good Processability | | |
| | Good Thermal Stability | | |
| | High ESCR (Stress Crack Resist.) | | |
| | High Strength | | |
| Uses | Corrugated Pipe | | |
| | Piping | | |
| Appearance | Natural Color | | |
| Forms | Pellets | | |
| Processing Method | Extrusion | | |
| | Pipe Extrusion | | |
| Physical | Nominal Value | Unit | Test Method |
| Density | 0.950 | g/cm ³ | ISO 1183 |
| Melt Mass-Flow Rate (MFR) (190°C/5.0 kg) | 0.44 | g/10 min | ISO 1133 |
| Environmental Stress-Cracking Resistance (F0) | > 5000 | hr | ASTM D1693 |
| Hardness | Nominal Value | Unit | Test Method |
| Durometer Hardness (Shore D) | 62 | | ASTM D2240 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Stress | | | ISO 527-2/100 |
| Yield | 22.0 | MPa | |
| Break | 34.0 | MPa | |
| Tensile Strain (Break) | 820 | % | ISO 527-2/100 |
| Flexural Modulus | 980 | MPa | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact | | | ASTM D256 |
| -20°C | 98 | J/m | |
| 0°C | 190 | J/m | |
| 23°C | 230 | J/m | |
| Thermal | Nominal Value | Unit | Test Method |
| Brittleness Temperature | < -60.0 | °C | ASTM D746 |

| Extrusion | Nominal Value | Unit |
|------------------|---------------|------|
| Melt Temperature | 170 to 200 | °C |

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