

FLEXAREN® 18000

Ethylene Vinyl Acetate Copolymer

Innospec Leuna GmbH

Message:

FLEXAREN® 18000 - high quality ethylene vinyl acetate copolymer with 18% content of vinyl acetate. Manufactured by high pressure tubular process FLEXAREN® 18000 is more elastic than LDPE and compatible with a wide range of polymers. It can be processed with the same equipment.

| General Information | | | |
|---|-----------------------------|-------------------|---------------|
| Features | Copolymer | | |
| | Good Flexibility | | |
| | High Clarity | | |
| | Low Temperature Flexibility | | |
| Uses | Film | | |
| | Stretch Wrap | | |
| | Wire & Cable Applications | | |
| Agency Ratings | EU 10/2011 | | |
| Appearance | Clear/Transparent | | |
| | Natural Color | | |
| Forms | Granules | | |
| Processing Method | Coextrusion | | |
| | Extrusion | | |
| Physical | Nominal Value | Unit | Test Method |
| Density (20°C) | 0.939 | g/cm ³ | ISO 1183 |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) | 0.50 | g/10 min | ISO 1133 |
| Vinyl Acetate Content | 18.0 | wt% | |
| Hardness | Nominal Value | Unit | Test Method |
| Shore Hardness | | | ISO 868 |
| Shore A | 89 | | |
| Shore D | 36 | | |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Stress | | | ISO 527-2/1BA |
| Break | 26.0 | MPa | |
| 50% Strain | 4.50 | MPa | |
| Tensile Strain (Break) | > 750 | % | ISO 527-2/1BA |
| Films | Nominal Value | Unit | Test Method |
| Tensile Strength | | | ISO 527-3 |

| MD : 50 μm | 37.0 | MPa | |
|-----------------------------|---------------|------|-------------|
| TD : 50 μm | 27.0 | MPa | |
| Thermal | Nominal Value | Unit | Test Method |
| Vicat Softening Temperature | 66.0 | °C | ISO 306/A |
| Extrusion | Nominal Value | Unit | |
| Melt Temperature | 100 to 150 | °C | |

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