



Rigidex[®] HD 5211EA-Y

Product Technical Information

Rigidex[®] HD 5211EA-Y is a high density polyethylene copolymer grade with a narrow molecular weight distribution, suitable for spinning and multifilaments.

Applications

- Continuous or staple fibers
- Non woven for medical or hygienic use

Benefits and Features

- A well defined molecular weight distribution
- Very low gel content
- Good flow
- High tenacity
- Processing and gas fading stabilisation
- Superior processability

| Properties | Test Methods | Values | Units |
|---|------------------------|--------------------|-------------------|
| Physical | | | |
| Density @ 23°C | ISO 1872 | 951 | kg/m ³ |
| Melt Flow Rate | 190°C/2.16 kg ISO 1133 | 11 | g/10min |
| Mechanical | | | |
| Tensile Strength @ Yield @ 23°C | ISO 527 | 26 | MPa |
| Elongation @ break @ 23°C | ISO 527 | 1000 | % |
| Flexural Modulus @ 23°C | ISO 178 | 1000 | MPa |
| Charpy Impact Strength @ 23°C | ISO 179 | 6 | kJ/m ² |
| Hardness Shore (D) | ISO 868 | 65 | - |
| Thermal | | | |
| Melting Point (DSC - 2 nd heating) | ASTM D2117 | 131 | °C |
| Vicat Softening Point (A) | ISO 306 | 123 | °C |
| Thermal Conductivity | ASTM C177 | 0.48 | W/m ² |
| Specific Heat | - | 2300 | J/kg °C |
| Coefficient of Linear Expansion | ASTM D696 | 2x10 ⁻⁴ | °C-1 |