



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 |



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Regulatory Information

The product and uses described herein may require global product registrations and notifications for chemical inventory listings, or for use in food contact or medical devices. For further information, send an email to psnohreg@innovene.com. Unless specifically indicated, the products mentioned herein are not suitable for applications in the medical or pharmaceutical sector.

Health and Safety Information

The product described herein may require precautions in handling. The available product health and safety information for this material is contained in the Material Safety Data Sheet (MSDS) that may be obtained from the website <http://techservice.innovene.com>. Before using any material, a customer is advised to consult the MSDS for the product under consideration for use.

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