



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