



Rigidex[®] HD 5218EA-Y

Product Technical Information

Rigidex[®] HD 5218EA-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	952	kg/m ³
Melt Flow Rate	190°C/2.16 kg	ISO 1133	18	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	1050	MPa
Charpy Impact Strength @ 23°C		ISO 179	5	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