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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/m³
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/m²
Hardness Shore (D)		ISO 868	65	-
Thermal				
Melting Point (DSC - 2nd heating)		ASTM D2117	131	°C
Vicat Softening Point (A)		ISO 306	123	°C
Thermal Conductivity		ASTM C177	0.48	W/m²
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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