Manufacturer website: https://www.ineos.com/businesses/ineos-olefins-polymers/

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/m³
Melt Flow Rate	190ºC/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 @ 23ºC		ISO 178	1000	MPa
Charpy Impact Strength @ 23ºC		ISO 179	6	kJ/m²
Hardness Shore (D)		ISO 868	65	-
Thermal				
Melting Point (DSC - 2nd heating)		ASTM D2117	131	ºC
Vicat Softening Point (A)		ISO 306	123	ºC
Thermal Conductivity		ASTM C177	0.48	W/m²
Specific Heat		-	2300	J/kg °C
Coefficient of Linear Expansion		ASTM D696	$2x10^{-4}$	°C-1

March, 2007

Published by

INEOS Polyolefins

Manufacturer website: https://www.ineos.com/businesses/ineos-olefins-polymers/

Manufacturer website: https://www.ineos.com/businesses/ineos-olefins-polymers/

Rigidex® HD 5211EA-Y

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.

Exclusion of Liability

Although INEOS POLYOLEFINS endeavours to ensure that all information and advice relating to our materials or other materials howsoever provided to you by INEOS POLYOLEFINS is accurate and up to date, no representation or warranty, express or implied is made by INEOS POLYOLEFINS as to its accuracy or completeness. All such information and advice is provided in good faith and INEOS POLYOLEFINS is not, to the maximum extent permitted by law, liable for any action you may take as a result of relying on such information or advice or for any loss or damage, including any consequential loss, suffered by you as a result of taking such action.

In addition data and numerical results howsoever provided to you by INEOS POLYOLEFINS are given in good faith and are general in nature. Data and numerical results are not and shall not be regarded as specifications and as such INEOS POLYOLEFINS is not, to the maximum extent permitted by law, liable for any action that you take as a result of relying on such data and results or for any loss or damage, including any consequential loss, suffered by you as a result of taking such action.

It remains at all times your responsibility to ensure that INEOS POLYOLEFINS materials are suitable for the particular purpose intended and INEOS POLYOLEFINS shall not be responsible for any loss or damage caused by misuse of INEOS POLYOLEFINS products. To the maximum extent permitted by law, INEOS POLYOLEFINS accepts no liability whatsoever arising out of the application, adaptation or processing of the products described herein, the use of other materials in lieu of INEOS POLYOLEFINS materials or the use of INEOS POLYOLEFINS materials in conjunction with such other materials.

March, 2007

Published by
INEOS Polyolefins

Manufacturer website: https://www.ineos.com/businesses/ineos-olefins-polymers/