

Rigidex® HD5211EA-Y

High Density Polyethylene Copolymer

INEOS Olefins & Polymers Europe

Message:

Rigidex HD5211EA-Y is a high density polyethylene copolymer grade with a narrow molecular weight distribution, suitable for spinning and multifilaments.

General Information			
Features	Low speed solidification crystal point		
	High tensile strength		
	Copolymer		
	Resistance to gas fading		
	Workability, good		
	Good liquidity		
	Narrow molecular weight distribution		
Uses	monofilament		
	staple fiber		
	Non-woven fabric		
	Filament		
	Medical/nursing supplies		
RoHS Compliance	Contact manufacturer		
Forms	Particle		
Processing Method	Filament extrusion		
	Fiber (spinning) extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.951	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	11	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	65		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield, 23°C)	26.0	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	1000	%	ISO 527-2
Flexural Modulus (23°C)	1000	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	6.0	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	123	°C	ISO 306/A50

Melting Temperature	131	°C	
CLTE - Flow	2.0E-4	cm/cm/°C	ASTM D696
Specific Heat	2300	J/kg/°C	ASTM C351
Thermal Conductivity	0.48	W/m/K	ASTM C177

Additional Information

The value listed as Density ISO 1183, was tested in accordance with ISO 1872 annealed. The value listed as Specific Heat ASTM C351, had no test standard defined. Melting Point, ASTM D2117, DSC, 2nd heating: 131°C

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