



RIGIDEX® HD5050UA

Product Technical Information

RIGIDEX® HD5050UA is a linear copolymer polyethylene grade supplied in pellet form for injection moulding application.

Benefits & Features

- Improved stiffness
- UV stabilized
- Whiteness

Applications

- Used in blend to improve stiffness

Properties	Conditions	Test Methods	Values	Units
Rheological				
Melt Flow Rate	190°C/2.16kg	ISO 1133-1	4	g/10min
Physical				
Density ISO 17855-1	23°C	ISO 1183-1	950	kg/m ³
Mechanical				
Tensile Strength at Yield	23°C	ISO 527-1,-2	25	MPa
Elongation at break	23°C Type 2 Speed D	ISO 527	>1000	%
Tensile Modulus	23°C, 1 mm/min	ISO 527-2	1100	MPa
Charpy Impact Strength, notched	23°C	ISO 179-1/1eA	5.5	kJ/m ²
Shore Hardness	Shore D	ISO 868	64	-
Thermal				
Melting point		ASTM D 2117	130	°C
Vicat softening point	(A)	ISO 306	121	°C
Thermal conductivity		ASTM C 177	0.48	W/m ²
Specific heat		-	2300	J/kg °C
Coefficient of linear expansion		ASTM D 696	2x10-4	°C-1

Data should not be used for specification work

Storage

The product should be stored in a dry and dust free environment at temperature below 50°C. Exposure to direct sunlight should be avoided as this may lead to product deterioration.

It is advised to process the product within maximum one year after delivery.