

HF7740F (EX1)

High Density Polyethylene for Stretch Tapes

General Description

HF7740F (EX1) is a high density polyethylene with 1-butene as comonomer. It has acceptable tear strength, medium molar mass and narrow molar mass distribution.

Typical Applications

- Stretched tapes (raffia) & films

Catalyst: THT/BM

Product Specification

PHYSICAL/MECHANICAL PROPERTIES	VALUE*	UNIT	TEST METHOD
Density	0.944±0.002	g/cm ³	ISO 1183
Fish eye note	≤ 4	note	Internal
FRR 5/2.16	15±3		
MFR190°/2.16	27±4	g/10 min	ISO 1133
MFR190°/5	1.8±0.3	g/10 min	ISO 1133
Stress at yield	21	MPa	ISO 527
Flexural creep modulus (4 points,1 min)	900	MPa	DIN 19537-2
Tensile modulus (23 °C, v = 1mm / min, Secant)	800	MPa	ISO 527
Stress at break	32	MPa	ISO 527
Elongation at break	>1000	%	ISO 527
Elongation at yield	10	%	ISO 527
Softening temperature	73	°C	ISO 306
Brittle temperature	< -80	°C	ASTM D746-72
Shore D hardness	58	-	ISO 868
Impact strength (23 °C)	12	kJ/m ²	ISO 179/1eA

* Typical values; not to be considered as product specification.

Note:

Test specimens were taken from compression moulded sheet at 23°C.

FRR values are statistical and calculated by dividing MFR values.

Notch impact test specimen was taken from compressed moulded sheet at 23°C and the data quoted here are average values.