

HF7750M (EX2)

High Density Polyethylene for Monofilaments

General Description

HF7750M (EX2) is a high density polyethylene with 1-butene as comonomer. It has good rigidity and medium molar mass.

Typical Applications

- Monofilament
- Ropes
- Yarns

Catalyst: THE/K1

Product Specification

PHYSICAL/MECHANICAL PROPERTIES	VALUE*	UNIT	TEST METHOD
Density	0.956±0.002	g/cm ³	ISO 1183
Fish eye note	d 5	note	Internal
FRR 21.6/5	10±2		
MFR190°/2.16	25±3	g/10 min	ISO 1133
MFR190°/5	2.5±0.3	g/10 min	ISO 1133
Stress at yield	27	MPa	ISO 527
Flexural creep modulus (4 points, 1min)	1350	MPa	DIN 19537-2
Tensile modulus (23 °C, v =1mm/ min, Secant)	1200	MPa	ISO 527
Stress at break	31	MPa	ISO 527
Elongation at break	>1000	%	ISO 527
Elongation at yield	10	%	ISO 527
Softening temperature	80	°C	ISO 306
Brittle temperature	< -80	°C	ASTM D746-72
Shore D hardness	59	-	ISO 868
ESCR in full notch creep test (80 °C, 2% Arcopal)	2	h@3.5 MPa	ISO CD 16770
Impact strength (23 °C)	19	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.

Storage and handling. Polyethylene products (in pelletized or powder form) should not be stored in direct sunshine and/or heat radiation. The storage area should be dry and the temperature preferably doesn't exceed 50 °C.