

Product Texts

A soft, colorable, highly flexible halogen-free flame-retardant thermoplastic elastomer (TPE). Mainly designed for extrusion of cable insulation and jacketing, it can be further cross-linked to improve properties using electron beam (EB) irradiation. It can be processed on conventional thermoplastics equipment for extrusion. This grade of Opti-Pren HFFR is polyolefin-based and completely recyclable.

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Strength	10.4	MPa	ISO 37
Strain at break	190	%	ISO 37
Tear strength	5	kN/m	ISO 34-1
Shore A hardness	87	-	ISO 7619-1

Thermal properties	Value	Unit	Test Standard
ASTM Data			
Limiting Oxygen Index	36	%	ASTM D 2863

Other properties	Value	Unit	Test Standard
Density	1540	kg/m ³	ISO 1183

Processing Recommendation Extrusion	Value	Unit	Test Standard
Pre-drying - Temperature	60 - 70	°C	-
Pre-drying - Time	3	h	-
Melt temperature	<180	°C	-
Feed temperature	135 - 140	°C	-
Zone 1	150 - 160	°C	-
Nozzle temperature	170 - 175	°C	-

Characteristics**Processing**

Wire/Cable Extrusion

Delivery form

Pellets

Special Characteristics

Flame retardant, Halogen-free

Features

Crosslinkable

Certifications

RoHS compliant

Applications

Electrical and Electronical

Regional Availability

Europe