

HFFR/LSHF Compound For Insulation & Sheathing



General Information

Description: Halogen Free Flame retardant and low smoke thermoplastic compound specially developed for jacketing of power cables. Different grades of our compound offer specific properties and covers a range of classifications as per the needed specifications.

Technical Information

Grade	Description	Standards													Properties																
		BS 7655-6.1				VDE 0207-24				VDE 276-604				VDE 250-215	VDE 0207-23	EN 50363-7T16	EN 50363-7T17	EN 50363-8 TM7	EN 50363-0M1	EN 50363-0M9	IEC 60332-1, 2&3	IEC 60502-1, 5T8	IEC 60092 SHF1	Oxygen Index	Tensile Strength	Elongation at Break	Density	Hardness	Tear Strength	Melt Flow Rate	Hot Pressure
		LTS1	LTS2	LTS3	LTS4	HM2	HM4	HM5	HJ2													% O ₂	N/mm ²	%	g/cm ³	Shore/D	N/mm	21.6kg @150°C	% @ 90°C		
HF 52050	HFFR/LSHF NAT	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	≥ 38	≥ 12	≥ 150	1.48 ± 0.02	50 ± 2	> 8	12.0 ± 1	< 35%			
HF 46900	HFFR/LSHF NAT	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	≥ 35	≥ 12.5	≥ 150	1.46 ± 0.02	50 ± 2	> 9.5	6.0 ± 1	< 35%			
HF 44010	HFFR/LSHF NAT	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	≥ 38	≥ 12.5	≥ 150	1.48 ± 0.02	50 ± 2	> 9.0	12.0 ± 1	< 35%			
HF 31010	HFFR/LSHF NAT	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	≥ 37	≥ 12	≥ 145	1.48 ± 0.02	49 ± 2	> 7	11.0 ± 1	< 40%			
HF 22050	HFFR NAT	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	≥ 37	≥ 12	≥ 150	1.49 ± 0.02	49 ± 2	> 7	11.0 ± 2	< 40%			
HF 11010	HFFR NAT	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	≥ 35	≥ 11.5	≥ 130	1.48 ± 0.02	50 ± 2	-	11.0 ± 2	< 40%			
HF 10010	HFFR NAT	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	≥ 35	≥ 6	≥ 80	1.68 ± 0.02	49 ± 2	-	8.0 ± 2	< 40%			

■	Recommended
■	Recommended

Grade	Description	Applications										
		Insulation	Jacketing Armoured	Jacketing Unarmoured	Bedding	Small OD Cables	Big OD Cables	UV Stabilized	High Throughput	High FR	Oil Resistant	High Moisture Resistance
HF 52050	HFFR/LSHF NAT	■	■	■	□	■	■	■	■	■	■	■
HF 46900	HFFR/LSHF NAT	■	■	■	□	■	■	■	■	■	■	■
HF 44010	HFFR/LSHF NAT	■	■	■	□	■	■	■	■	■	■	■
HF 31010	HFFR/LSHF NAT	■	■	■	□	■	■	■	■	■	■	■
HF 22050	HFFR NAT	■	□	■	□	■	□	■	■	■	■	■
HF 11010	HFFR NAT	■	□	■	□	■	□	■	■	■	■	■
HF 10010	HFFR NAT	■	□	■	□	■	□	■	■	■	■	■

■	Best fit application
■	Applies recommended
□	Applies unrecommended

The information in this datasheet is provided for guidance purposes and is subject to change without notice. While compiled in good faith and deemed accurate at publication, Energyya Plastics assumes no liability for its application. Please note that actual dimensions may vary due to standard manufacturing tolerances.