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-THERMOPLASTIC HFFR COMPOUNDS FOR WIRE & CABLE APPLICATIONS-

The materials listed above are all thermoplastic, halogen free, low smoke and flame retardant. They can be delivered in different colours, UV-resistant, rodent and termite resistant. Additional formulations are available, especially according to customer's specific requirements.

Their application is either insulation or sheathing of power and telecommunication cables, according to the mentioned International Standards.

	Description	Density	Shore D Hardness	Tensile Strength	Elongation at Break	Oxygen Index	Material standard compliance*
		gr/cm³	points	N/mm²	%	%	
HM2 standard grades							
TV 5036	General purpose, low die-drool, high speed extrusion	1.50	50	11	160	36	M1, TI6, TI7, TM7, HM2, LTS 1-3
TV 5235	Optimized formulation	1.51	51	11	160	35	M1, HM2
V 5040-1	High flame retardancy	1.57	51	11	150	40	M1, HM2, ST8
HM4 standard grades							
AP 5136	General purpose	1.52	53	12	180	36	HM4, HM5, LTS2, SHF1, ST8
P 5040	High flame retardancy	1.54	52	12	160	40	HM4, LTS1-2-3-4, ST8
GT 50A27535	High temperatures	1.54	52	12	160	35	M1, HM4, LTS2
Flexible grades							
GF 31A35037	Outstanding flexibility	1.48	31	8	250	37	TI6, TM7
GF 34A35136	Outstanding flexibility	1.49	34	8	250	36	TI6, TM7
GF 3831	Highly flexible	1.46	36	10	250	32	TI6, TI7, TM7, HM4, LTS2
GF 38A31131	Highly flexible, increased flame retardancy	1.49	37	10	250	40	TI6, TI7, TM7, HM4, LTS2
GP 4034	Multi-bending cycles	1.48	40	8	200	34	TI6, TM7
V 4035	General purpose	1.46	42	10	200	33	TI6, TM7, HM2
FV 4038	Flexibility and flame retardancy	1.50	42	10	200	39	M1, TI6, TM7, HM2
V 4332-7	General purpose, high speed extrusion	1.48	45	10	200	32	M1, TI6, TI7, TM7, HM2, HJ2
Special flame retardant grades for CPR							
VS 52A27038	Superior flame retardancy	1.55	50	10	150	41	M1, HM2
SP 52A28045	Low die-drool, superior flame retardancy	1.54	52	11	150	40	HM4, LTS2, SHF1
AL 5042	Highly flame retardant, good processability	1.57	50	10	160	42	HM2, TI7
AL 5045	Highly flame retardant	1.57	50	10	170	44	HM2
AL 50A39545	Highly flame retardant	1.56	52	10	160	42	HM4, LTS 1-2-3-4
AL 50A28245	Top flame retardancy	1.65	54	11	140	50	M1, HM2

* referring to the following International Standards: EN 50363, VDE 02-07, VDE 02-50, BS 7655, IEC 60092, IEC 60502

These thermoplastic compounds can be processed on extruders with a low compression ratio or on PVC extruders, using a temperature profile set between 140-170°C.
The materials must be stored in closed and unbroken bags, avoiding direct exposure to sunlight and weathering.
Due to water absorption, it is preferable to use the LSZH compounds within 3 months from the production date.

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