

Mineralische Flammschutzmittel für
Mineral flame retardants for

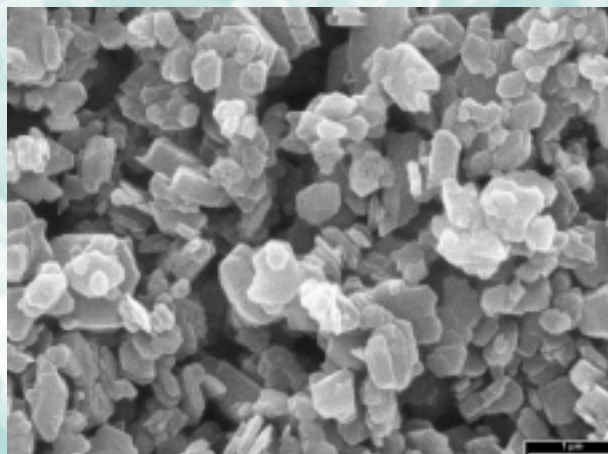
- **Kabelindustrie / Wire and cable industry**
- **Bauindustrie / Construction industry**
- **Fahrzeugbau / Public transport**

APYRAL®

Durchschnittsanalyse / Typical analysis		APYRAL 60D	APYRAL 120E
Al (OH) ₃ - Gehalt / -Content	[%]	99.5	99.5
Feuchte / Moisture	[%]	0.3	0.5
Glühverlust / Loss on ignition	[%]	34.6	34.6
Teilchengröße / Particle size			
(Laserbeugung) / (Laser diffraction)	D ₁₀ [µm]	0.5	0.4
	D ₅₀ [µm]	1.0	0.9
	D ₉₀ [µm]	2.3	2.9
Siebrückstand / Sieve analysis			
(> 45 µm)	[%]	0.02	0.03
Spezifische Oberfläche / Specific surface area			
(BET)	[m ² /g]	6	11
Schüttdichte / Bulk density			
	[kg/m ³]	350	200
Ölaufnahme / Oil absorption			
	[ml/100g]	33	37
Weißgrad / Whiteness			
(Elrepho 457 nm)	[%]	98	98
Spezifische Leitfähigkeit / Specific conductivity			
	[µS/cm]	50	100
Brechungsindex / Refractive index			
		1.58	1.58
Härteindex (Mohs) / Mohs hardness			
		3	3
Dichte / Density			
	[g/cm ³]	2.4	2.4

Produktvorteile / Product properties

- **Sehr hohe Partikelfeinheit**
Ultra fine particles
- **Sehr enge Kornverteilung**
Very narrow grain size distribution
- **Plättchenförmige Partikelmorphologie**
Platy like morphology
- **Hohe spezifische Oberfläche**
High specific surface area



Beispiele für den Einsatz von APYPAL 60D, APYPAL 120E / Examples for the use of APYPAL 60D, APYPAL 120E



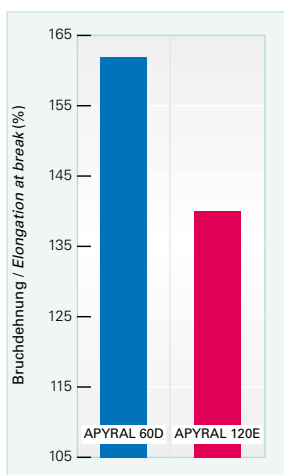
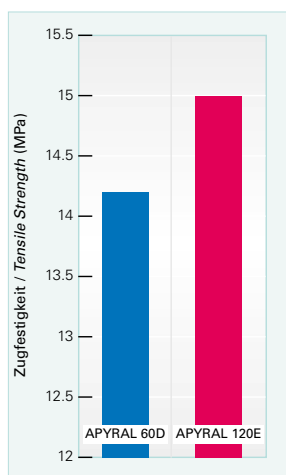
Halogenfrei flammgeschützte Kabel
Halogen free flame retardant cables



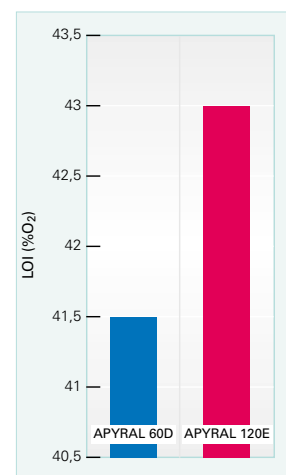
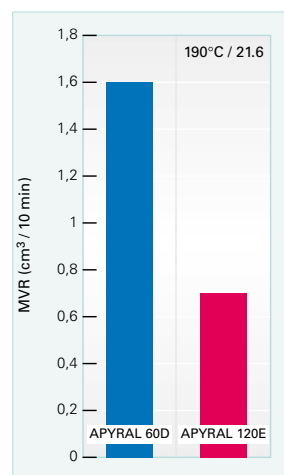
Rauchgasreduzierter Thermoisolationsschaum
Smoke suppressed thermoinsulation foam

Produkt- / Product-Information

Mechanische Eigenschaften eines HFFR-EVA Kabelcompounds
Mechanical Properties of an HFFR-EVA cable compound



Schmelzeindex MVR und LOI eines HFFR-EVA Kabelcompounds
Melt Volume Rate and LOI of an HFFR-EVA cable compound



For further information, please contact:

Nabaltec AG
P. O. Box 1860 · D-92409 Schwandorf
Phone +49(0) 94 31 53 - 0
Fax +49(0) 94 31 6 15 57
www.nabaltec.de

Business Unit Flame Retardants

Phone +49(0) 94 31 53-4 62/4 58/4 67
fillers@nabaltec.de

All data listed in this brochure are reference values and subject to production tolerances. These values are exclusive to the product description and no guarantee is placed on the properties. It remains the responsibility of the users to test the suitability of the product for their application.