

**Produkt-/Product-Information**  
**APYRAL 200 SM**

Mineralisches Flammschutzmittel für  
*Mineral flame retardant for*

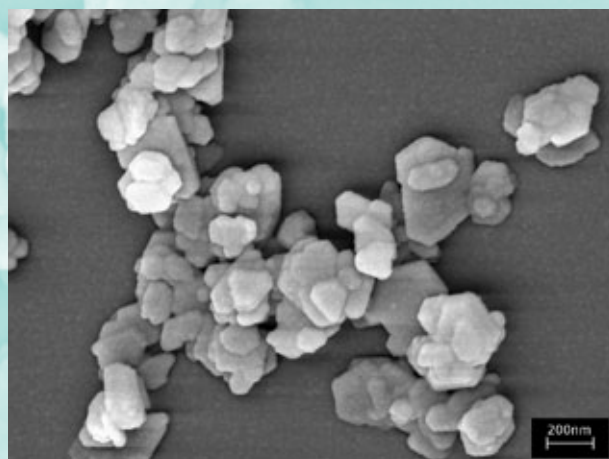
- **Kabel / Cable**
- **Elektro-/Elektronikindustrie / Electronic industry**
- **Bauindustrie / Construction industry**
- **Fahrzeugbau / Public transport**

**APYRAL®**

Durchschnittsanalyse / Typical analysis		APYRAL 200 SM
Al (OH) <sub>3</sub> - Gehalt / -Content	[%]	99.3
Feuchte / Moisture	[%]	0.8
Glühverlust / Loss on ignition	[%]	34.6
<b>Teilchengröße / Particle size</b>		
NIBS / NIBS non invasive backscattering	D <sub>10</sub> [µm]	0.3
	D <sub>50</sub> [µm]	0.4
	D <sub>90</sub> [µm]	0.8
<b>Siebrückstände / Sieve analysis</b>		
(> 45 µm)	[%]	0.05
<b>Spezifische Oberfläche / Specific surface area</b>		
(BET)	[m <sup>2</sup> /g]	15
<b>Schüttdichte / Bulk density</b>		
	[kg/m <sup>3</sup> ]	200
<b>Ölaufnahme / Oil absorption</b>		
	[ml/100g]	48
<b>Weißgrad / Whiteness</b>		
	[%]	98
<b>Spezifische Leitfähigkeit / Specific conductivity</b>		
	[µS/cm]	200
<b>Brechungsindex / Refractive index</b>		
		1.58
<b>Härteindex (Mohs) / Mohs hardness</b>		
		3
<b>Dichte / Density</b>		
	[g/cm <sup>3</sup> ]	2.4

**Produktvorteile / Product properties**

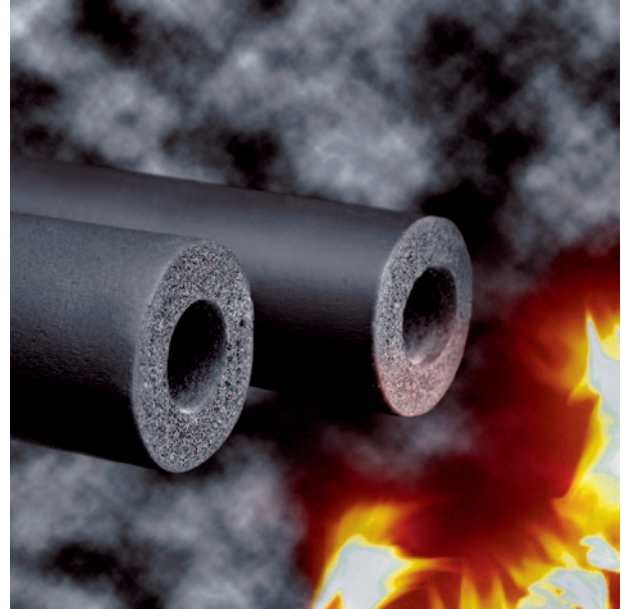
- **Partikel im Submikronbereich**  
*Particles in submicron scale*
- **Gute Dispergierung ohne Zusatz von Organik**  
*Good dispersion without organic additives*
- **Hohe BET-Oberfläche**  
*High BET-surface*
- **Ideales Co-Flammschutzmittel**  
*Ideal co-flame-retardant*
- **Synergist zu organischen Flammschutzmitteln**  
*Synergist for organic flame retardants*



## Beispiele für den Einsatz von APYRAL 200 SM / Examples for the use of APYRAL 200 SM



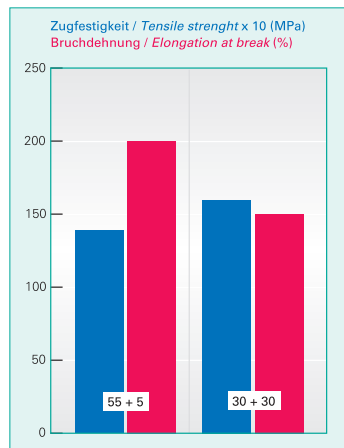
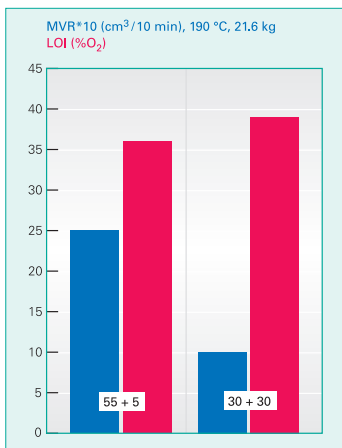
**Halogenfrei flammgeschützte Kabel**  
*Halogen free flame retardant cables*



**Rauchgasreduzierter Thermoisolationsschaum**  
*Smoke suppressed thermoinsulation foam*

## Produkt- / Product-Information

**Kenndaten von HFFR-EVA Kabelcompounds mit 60 Gew.-% (55 + 5 bzw. 30 + 30) APYRAL 40CD + APYRAL 200 SM**  
**Parameters of an HFFR-EVA cable compounds comprising 60 wt.-% (55 + 5 or 30 + 30) APYRAL 40CD + APYRAL 200 SM**



## Anwendungsvorteile / Application features

- **Sehr effektiver Co-Flammschutz**  
*Very effective co-flame-retardant*
- **Hohe Flexibilität in der Gestaltung des Compounds durch APYRAL-Abmischungen**  
*High flexibility in the compound formulation with different mixtures of APYRAL grades*
- **Bestens geeignet für Elastomere und elastomerartige Compounds**  
*Highly recommended for elastomers and elastomer-like compounds*
- **Ermöglicht das Erreichen strenger Flammschutzvorgaben nach CPD**  
*Enables stringent classification according to CPD (Construction Products Directive)*

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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.