

## Aluminium Hydroxide | Al(OH)<sub>3</sub>

### Technical data sheet

APYRAL® 411 XLV

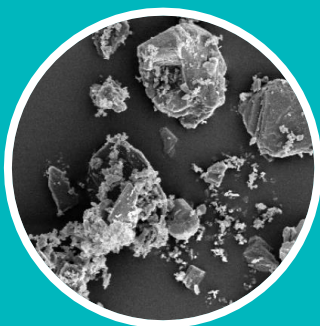
APYRAL® 425 XLV

APYRAL® 460 XLV

APYRAL® 475 XLV

APYRAL® 499 XLV

Viscosity optimized mineral flame retardants

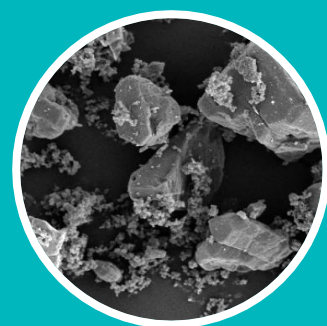


25 µm

APYRAL® 425 XLV

#### Product advantages

- Very broad particle size distribution
- Very low viscosity
- Good dispersability
- High filling levels



25 µm

APYRAL® 475 XLV

### Temporary Typical Values of APYRAL® 411 XLV / 425 XLV / 460 XLV / 475 XLV / 499 XLV

Analysis	Unit	APYRAL® 411 XLV	APYRAL® 425 XLV	APYRAL® 460 XLV	APYRAL® 475 XLV	APYRAL® 499 XLV
Al(OH) <sub>3</sub>	%	99.6	99.6	99.6	99.6	99.6
Water soluble Na <sub>2</sub> O	%	0.04	0.03	0.03	0.03	0.03
Moisture (105 °C)	%	0.2	0.2	0.2	0.2	0.2
D <sub>10</sub>	µm	0.8	0.9	1.2	0.9	0.9
D <sub>50</sub>	µm	3.5	6	16	16	28
D <sub>90</sub>	µm	12	23	60	77	105
Sieve residue (> 45 µm)	%	0.03	0.03	15	30	44
Spec. surface area (BET)	m <sup>2</sup> /g	2.9	2.2	1.6	1.5	1.4
Oil absorption*	ml/100g	17	15	13	12	11
Spec. conductivity	µS/cm	155	100	100	100	100
Bulk density	kg/m <sup>3</sup>	550	600	700	700	725
Whiteness**	%	90	89	86	86	87

\* Oleic acid

\*\* Tappi Brightness (457 nm)

APYRAL® 411 XLV

APYRAL® 425 XLV

APYRAL® 460 XLV

APYRAL® 475 XLV

APYRAL® 499 XLV

## Applications

- Construction industry
- Public transport
- E&E industry

## Application Examples

Interiors for railway cars

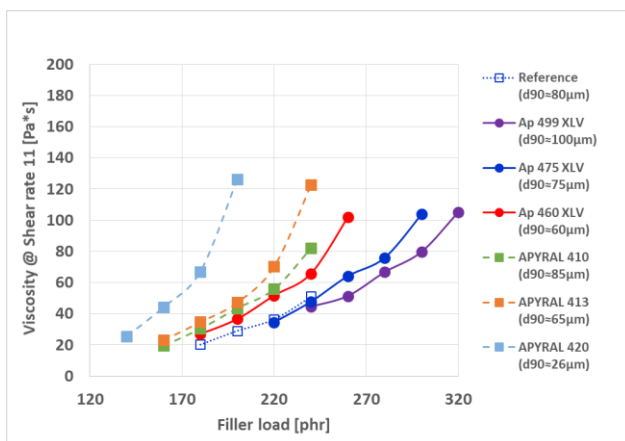
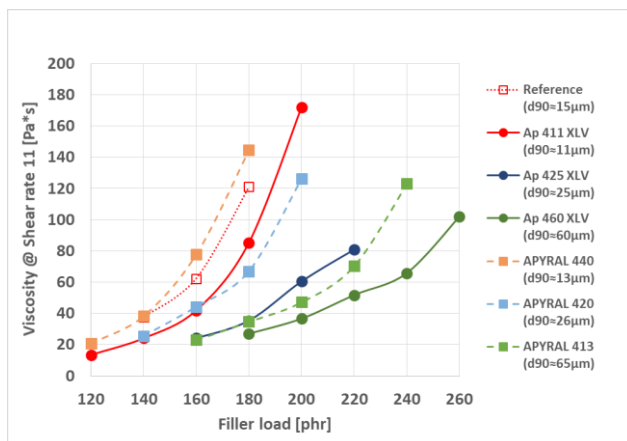


Construction Profiles



## Produktinformation | Product information

Viscosity in UP-Resin Palapreg P17-02 (AOC)



Material constants	APYRAL®
Chemical	Aluminium hydroxide
Chemical formula	Al(OH) <sub>3</sub>
Crystal structure	Gibbsite
Mohs hardness	3
Specific gravity [g/cm <sup>3</sup> ]	2.42
Refractive index	1.58

All data listed in this data sheet 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.