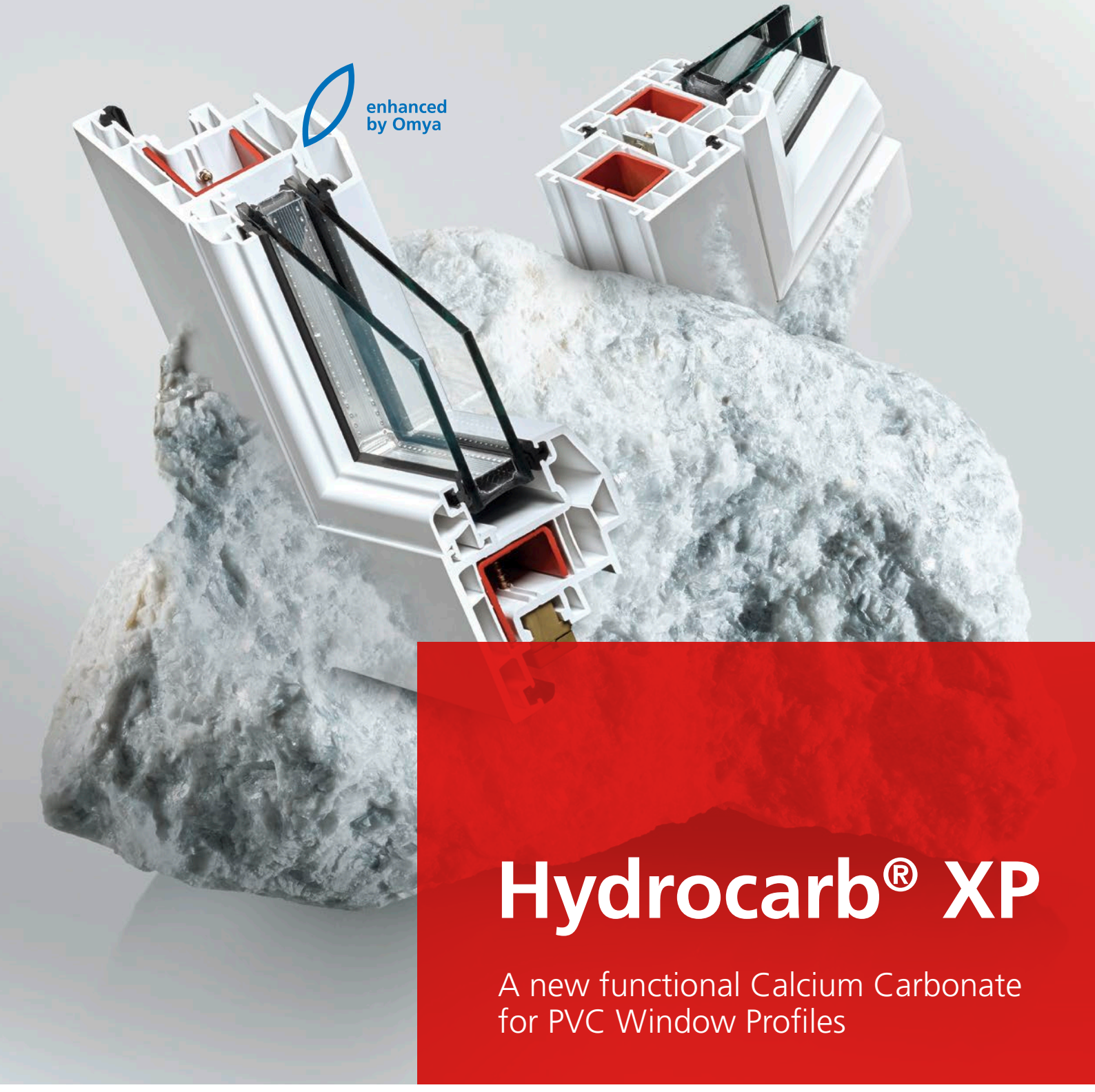

Hydrocarb® XP

A new functional Calcium Carbonate for PVC Window Profiles

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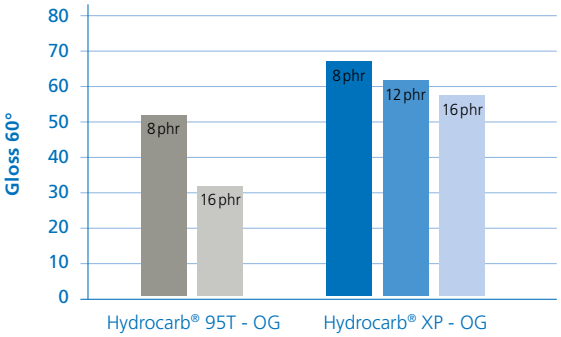
A new functional Calcium Carbonate for PVC Window Profiles

Calcium Carbonate is well known in extrusion processes. It is also prone to cause difficult processing conditions as the lubrication system had to be adapted in order to control the shear. Also a decrease of the gloss level was discovered as loadings of Calcium Carbonate have increased.

Hydrocarb® XP is a tailor-made Calcium Carbonate designed specifically to meet the requirements of the PVC window profile market. Unlike traditional Calcium Carbonates, Hydrocarb® XP allows for an increase in mineral loadings without negatively influencing other properties and overcomes the influences on the shear and processing behavior at high loadings. These effects are possible due to improved dispersion properties of Omya's Hydrocarb® XP Calcium Carbonate in PVC.

The result, of the improved dispersion produces a better gloss and superior surface finish which challenges the conventional opinion that gloss decreases with higher loadings of Calcium Carbonate. In addition, the fine ground Hydrocarb® XP exhibits higher notched impact resistance compared to the industry standard, more coarsely ground grade – Hydrocarb® 95T. This allows processors the possibility to improve their formulations while easily meeting the RAL GZ 716/1 standard.

Profile surface gloss (average value)



phr = parts per hundred resin

Hydrocarb® XP Benefits

- *Higher gloss*
- *Increased impact resistance*
- *Better dispersion*
- *Easier processing at higher loadings*

The new grade Hydrocarb® XP offers the opportunity for customers to improve the performance and shows the potential to fulfill both, economic advantages and property enhancements.

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Natural Products for SUSTAINABILITY

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