

## Minelco UltraCarb LH15C- 10 Hydrated Magnesium Calcium Carbonate

Category : Ceramic , Other Engineering Material , Additive/Filler for Polymer

### Material Notes:

Mineral Flame Retardant Ultracarb combines properties normally associated with several different materials that can be used jointly or individually to benefit many applications including rubber, plastics, surface coatings, mastics and sealants. The flame-retardant properties make it a valuable alternative to many of the traditional flame-retardants used in the plastics and rubber industry. The endothermic decomposition absorbs heat and reduces the flame and surface temperature of the burning polymer. The evolution of 53% of the original weight as non-flammable carbon dioxide and water vapor dilutes the oxygen near the burning surface as well as any smoke and flammable gases which are evolved during combustion. The onset of decomposition occurs at 220°C, allowing Ultracarb to be incorporated in high-melt polymers and enables improved compounding rates in intermediate melting point polymers. The fine particle size distribution of Ultracarb yields polymer compounds with good surface finish and improved mechanical properties. The product also offers rheological properties beneficial to the manufacture and practical application of a range of adhesives and sealants, providing a viable alternative to the precipitated calcium carbonates traditionally employed in these systems. In addition to flame retardant and rheological properties, Ultracarb offers a high brightness and neutral whiteness that makes it an ideal extender for titanium dioxide particularly in surface coating applications. Applications: PVC, Elastomers, Thermoset

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Minelco-UltraCarb-LH15C-10-Hydrated-Magnesium-Calcium-Carbonate.php](http://www.lookpolymers.com/polymer_Minelco-UltraCarb-LH15C-10-Hydrated-Magnesium-Calcium-Carbonate.php)

Physical Properties	Metric	English	Comments
Specific Gravity	2.50 g/cc	2.50 g/cc	
Bulk Density	0.200 - 0.500 g/cc	0.00723 - 0.0181 lb/in <sup>3</sup>	Loose
Oil Absorption	20 - 40 %	20 - 40 %	
Particle Size	0.60 Åµm	0.60 Åµm	10%
	3.0 Åµm	3.0 Åµm	50%
	9.0 Åµm	9.0 Åµm	90%
Specific Surface Area	11 - 13 m <sup>2</sup> /g	11 - 13 m <sup>2</sup> /g	

Mechanical Properties	Metric	English	Comments
Hardness, Mohs	2.5	2.5	

Optical Properties	Metric	English	Comments
Refractive Index	1.56	1.56	

Component Elements Properties	Metric	English	Comments
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Al <sub>2</sub> O <sub>3</sub> Component Elements Properties	0.10 % Metric	0.10 % English	Comments
CaO	6.0 - 9.0 %	6.0 - 9.0 %	
Fe <sub>2</sub> O <sub>3</sub>	0.050 %	0.050 %	
K <sub>2</sub> O	0.010 %	0.010 %	
Loss on Ignition(%)	51 - 54 %	51 - 54 %	
MgO	36 - 39 %	36 - 39 %	
SiO <sub>2</sub>	0.20 - 1.0 %	0.20 - 1.0 %	
Sulfur, S	0.10 %	0.10 %	

Descriptive Properties	Value	Comments
Acid Insoluble Matter, wt%	1 to 3	
Appearance	White powder	
Coating Level %	1	
color (L*)	97	
Moisture loss %	0.6	105Å°C

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