

WELLPREN™

CHLORINATED POLYETHYLENE RESIN

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IM 500

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General introduction

WELLPREN™ RESIN IM series products are chlorinated polyethylene resin. It is a type of superior high performance-price ratio impact modifier and is widely used in production of many types of rigid plastic products and semi-flexible products like sidings.

Proper amount of WELLPREN™ RESIN added into formulations of PVC, PE or PP plastic products will not only greatly enhance impact resistance but also will largely improve low temperature performance, weatherability, welding strength and other performance. WELLPREN™ RESIN is most suitable for substitution of Acrylic impact modifier (AIM) or blending with AIM with a certain percentage without adjusting the processing data and the formulation, resulting in an optimum performance/cost solution.

Properties of WELLPREN™ RESIN:

- Superior flexibility and good low temperature impact strength
- Compatible with acrylic impact modifier
- Superior compatibility with polymers like PVC, PE, and ABS
- Superior weatherability
- Superior processibility
- Excellent corner strength
- High surface gloss
- Good filler acceptance
- Cost effective system

Characteristics of IM 500

IM 500 has the lowest molecular weight, medium chlorine content, suitable crystallinity, best flowability, good compatibility with ABS, suitable for the production of molded products.

Application

IM 500 is specially designed to act as the impact modifier of flame retardant ABS (FR-ABS) compound. It can also be used in plastic modification where excellent rheological property is required.

Supply specification

| IM500 | Property | Test method | Typical data | Specification |
|--------------|--------------------------------------|--------------------|---------------------|----------------------|
| | Appearance | --- | White powder | |
| | Chlorine content, % | GB/T7139 | 35 | 34 – 36 |
| | Heat of fusion, J/g | HG/T2704-2010 | 1.0 | ≤ 5.0 |
| | Volatiles, % | GB/T2914 | 0.2 | ≤ 0.3 |
| | Sieve remainder, 0.9 mm sieve, % | GB/T2916 | 0 | ≤ 2.0 |
| | Impurity particles, piece/100g | HG/T2704-2010 | 15 | ≤ 30 |
| | Thermo decomposition temperature, °C | GH-002 | 165 | ≥ 160 |
| | Hardness, Shore A | GB/T531 | 60 | ≤ 65 |
| | Tensile strength, Mpa | GB528 | 9.5 | ≥ 8.0 |
| | Elongation at break, % | GB528 | 650 | ≥ 600 |

Packing , transportation and storage

25 Kg PP woven bag or 500 kg / 600 kg supre sacks.

This material is non- dangerous goods for land, air and marine transportation.

To avoid blocking, bags containing WELLPREN should be stacked no more than two pallets high and should be stored at temperature no more than 100° F (38° C), shelf life is theoretically unlimited when storage is under proper conditions.

Safe Handling

Please consult the MSDS before handling for additional information concerning personal protective equipment, Safety, Health and Environmental information, and always exercise the utmost care in handling.

Contact information



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