



**Sundow Polymers Co., Ltd.**

**WELLPREN™ CPE**

**Chlorinated Polyethylene (CPE)**

WELLPREN™ CPE is divided into two series based on different final applications, WELLPREN™ RESIN (IM series) is designed for plastic impact modification, and WELLPREN™ ELASTOMER (CM series) is for rubber application.

**WELLPREN™ CPE IM series guide**

<b>Grade</b>	<b>Characteristics</b>	<b>Application</b>	<b>Comparable grade</b>
<b>IM 900</b>	The highest chlorine content, lowest molecular weight; this grade has excellent flame retardance and flowability.	Flexible PVC modification, taps, coating, foamed products etc.	
<b>IM 888</b>	High molecular weight, superior mechanical performance; General impact modifier for plastic rigid products and semi-flexible products.	PVC door and window profiles, siding, sheet, fence, PVC pipe, electrical conduit etc.	T - 3615 T - 7000
<b>135A</b>	High molecular weight, superior mechanical performance; General impact modifier for plastic rigid products and semi-flexible products.	PVC door and window profiles, siding, sheet, fence, PVC pipe, electrical conduit etc.	T - 3615 T - 7000
<b>IM 878</b>	Lower molecular weight than IM888, better processibility, suitable for high-speed extrusion.	PVC door and window profiles, siding, sheet, fence etc.	T - 6000
<b>IM 868</b>	High molecular weight, superior mechanical performance, high absorption capacity to filler, high cost/performance efficiency.	Specially designed for PVC pipe application, such as PVC pressure pipe, drain pipe, electrical conduit etc.	T - 3615 T - 7000
<b>IM 800</b>	Lower chlorine content, high molecular weight, excellent physical property, faster gelation, most suitable for mixing with AIM as impact modifier or complete substitution of AIM.	Super quality PVC window profile, improved low temperature properties and corner-weld strength.	T - 2500
<b>IM 600</b>	25% chlorine content, faster gelation, most suitable in	Super quality PVC window profile,	T - 2500



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	blends with acrylic impact modifiers, to achieve a desirable combination of ductile impact and processing performance.	improved low temperature properties and corner-weld strength.	
<b>IM 500</b>	Lowest molecular weight, suitable crystallinity, good compatibility with ABS, best rheological property, suitable for production of molded products, Used as a flame retardant and impact modifier in ABS.	Flame retardant ABS	T - 3611
<b>IM 450</b>	Low chlorine content, lowest molecular weight, suitable crystallinity, good compatibility with ABS, best rheological property, highest thermo-stability, the best choice as impact modifier of FR-ABS.	Flame retardant ABS	T - 3245F

### Typical physical property of WELLPREN™ series

Property	Typical value								
	IM 900	IM 888	135A	IM 878	IM 868	IM 800	IM 600	IM 500	IM 450
Chlorine content, %	40	35	35	35	35	30	25	35	32
Heat of fusion, J/g	1.0	1.5	1.5	1.5	1.5	1.5	1.5	3	3
Volatiles, %	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Impurity particles, piece/100g	15	25	25	25	25	25	25	25	25
Thermo decomposition temperature, °C	165	170	170	170	170	170	170	175	175
Share hardness, A	63	58	58	58	56	68	65	65	65
Tensile strength, Mpa	9.5	9.5	9.5	8.0	10.5	10.0	10.0	9.0	9.0
Elongation at break, %	650	700	700	700	700	700	600	600	800
Melting Index (180°C @ 10 kg)								9.0	9.0

**Remark: the above data should not be regarded as the final supply specification.**



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**Contact information**



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