



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 CM series guide

Grade	Characteristics	Application	Comparable grade
CM 3595	Highest molecular weight, relatively narrow molecular weight distribution, highest Mooney viscosity and best physical performances	High viscosity grade for highly filled hose, cable jackets, HPN cords, sponge and molded products.	T - CM0836
CM 3585	High molecular weight, slightly lower in Mooney viscosity than CM3595, superior mechanical performances and easy for formulation	Medium viscosity grade for improved extrusion and good mechanical properties at higher filler loadings.	T - CM3551
CM 3575	Medium molecular weight, Mooney viscosity between 70 and 80, superior mechanical performances, good processibility, quick extrusion and good final product outlook	Medium Viscosity grade, widely used for hose, wire / cable and molded products.	T - CM0136 T - CM3630
CM 3560	Medium to low molecular weight, Mooney viscosity between 50 and 65, superior mechanical performances, applied in many fields and with good processibility.	Low Viscosity grade for hose, sponge wire and cable and molded products.	T - CM0636
CM 4085	Very high viscosity, high chlorine content, good flame retardancy and oil resistance	Used for products with requirements for high mechanical performances, flame retardancy and oil resistance, such as flame retardant and oil resistant films, tapes, hoses, wire and cable	T - CM631
CM 4065	Lowest Mooney viscosity in 40” series products, wide molecular weight distribution, easy for processing and	Used for special rubbers like rubber coated fabrics, foamed rubber, coating	T - CM4211



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	formulation and good sticking force with surface of other materials.	etc.	
CM 3090	High molecular weight, superior mechanical performance, high modules, low chlorine content, excellent low temperature property, excellent absorption ability to filler.	Magnetic rubber, industrial and automobile hose etc.	
CM 3065	Lower chlorine grade for improved heat resistance and better low temperature properties. Medium molecular weight, low chlorine content, high modules, easy to process.	Industrial and automobile hose	T - CM0730
CM 1000	Highest molecular weight, outstanding mechanical performance, excellent low temperature property, improved oil resistance, high filler absorption.	Specially designed for magnetic rubber application, especially for oil and heat resistance magnetic rubber application.	

Typical physical property of WELLPREN™ CM series

Property	Typical value								
	3595	3585	3575	3560	4085	4065	3090	3065	1000
Chlorine content, %	35	35	35	35	40	40	30	30	35
Heat of fusion, J/g	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Volatiles, %	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Impurity particles, piece/100g	25	25	25	25	25	25	25	25	25
Share hardness, A	57	57	57	57	57	65	65	60	56
Mooney viscosity, ML (1+4) 125°C	95	85	75	60	85	65	95	65	98
Tensile strength, Mpa	9.5	9.0	8.0	8.0	9.0	9.0	10.0	9.0	10.0
Elongation at break, %	650	650	700	700	650	650	800	800	850

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



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Contact information



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