SN-231

SN-231 is a general purpose, mercaptan modified polychloroprene rubber produced using a Nairit recipe and process technology. SN-231 has a medium crystallization rate and can be seen as an equivalent to the WM-1 grade from DuPont.

Properties and Characteristics

SN-231 compounds exhibit excellent physical properties, plasticity and processing capabilities. It can be compounded without prior rubber milling and resists molecular weight degradation except under the highest shear conditions. Compound surfaces of rubber are smooth and tend not to adhere to the rolls while milling. SN-231 can easily be mixed with other chloroprene rubbers. Compounds of SN-231 have very low compression set and excellent elasticity. Generally, accelerators are added to compounds of SN-231 but cure rate and process safety can be widely varied to suit the requirements, especially if mixed with other rubber raw materials. SN-231 compounds exhibit good oil resistance, chemical resistance, ozone and aging resistance, sunlight resistance, fire resistance, and electrical properties.

Correlation of SN-231 with Major Competitive Grades:

Shanna, China	DuPont, USA	DENKA, Japan	Lanxess, Germany
SN-231	WM-1	M-30	211

Specifications

Property	Value
Appearance	White or grey chips; no solid impurities except talcum;
Specific Gravity	1.23
Mooney viscosity ML(1+4), 100°C	34 ~ 41
Mooney scorch MSt5 (min)	≥ 12
Module at 500 % elongation (MPa)	2 ~ 5
Tensile strength (MPa)	≥ 13
Ultimate elongation (%)	≥ 700
Volatiles (wt %)	≤ 0.8
Ash (wt %)	≤ 1.0

*According to standard Q/SNYF02.01-2009

Applications

The wide range of viscosities available in the SN-23X series allows the appropriate amount of filler and plasticizer to be added to obtain compounds suitable for most applications where CR is the rubber of choice. Particular examples of their intended applications are: conveyor belts, extruded profiles, hoses, seals and wire and cable sheaths. These grades can also be used for formulating adhesives, particularly for adhesive plasters.