

SN-122

SN-122 is a general purpose, sulfur modified polychloroprene rubber produced using a Nairit recipe and process emulsion polymerization technology. SN-122 has a medium to low crystallization rate and can be seen as an equivalent to the GNA grade from Dupont.

Properties and Characteristics

SN-122 has a slightly higher Mooney viscosity than that of SN-121. SN-122 breaks down well under mechanical shear to produce smooth compounds with minimal stickiness. It shows good compatibility with other grades of CR. Compared with CR-122, SN-122 has improved processability and more plastication. SN-122 can be more easily milled to reduce its molecular weight and is better for mixing with other rubbers or for compounding; it is also better for extrusion processing. The surface of compounds from SN-122 is flat and smooth with smaller shrinkage. Cured with metal oxides, the compounds cure rapidly but have a reasonable scorch safety. SN-122 compounds exhibits good oil resistance, chemical resistance, ozone and aging resistance as well as the sunlight resistance qualities typical of polychloroprene. Also standard is their good fire resistance and electrical properties.

Correlation of SN-122 with Major Competitive Grades:

Shana, China	DuPont, USA	DENKA, Japan	Lanxess, Germany
SN-122	GNA	PM-40	710

Specifications

Property	Value
Appearance	Light yellow or amber chips; no solid impurities except talcum as a release agent; no scorched particles
Specific Gravity	1.23
Mooney viscosity ML(1+4), 100°C	51 ~ 65
Mooney scorch MS15 (min)	≥ 25
Module at 500 % elongation (MPa)	2 ~ 5
Tensile strength (MPa)	≥ 23
Ultimate elongation (%)	≥ 850
Volatiles (wt %)	≤ 0.8
Ash (wt %)	≤ 1.0

*According to standard Q/SNYF02.02-2009

Applications

SN-122 can be used in the manufacture of a wide range of products where oil resistance, heat resistance and/or fire retardant properties are required. It can be compounded to meet a range of special requirements. Specific examples for its intended use include: mining conveyor belts, power transmission belts, hoses, cable jackets, seals and wire sheathings. As an adhesive raw material it finds wide application within the shoe industry as well as in the bonding of leather, wood, metal and construction materials.