



K0545
North America

Cariflex™ IR0310 K Polymer

Data Document

Identifier : K545DDi17U

Description

Cariflex IR0310 KU polymer is a solution polymerised polyisoprene with a high cis-1,4 content. It has a high molecular weight as indicated by its Logarithmic Inherent Viscosity (LIV) value of 7.05 dl/g. It is supplied from North America in the physical form identified below.

- Cariflex IR0310 KU - supplied as a white/transparent solid bale

A non-staining stabilizer is added at the typical value of 0.15%.

Cariflex IR0310 KU polymer is manufactured to the highest standards but special requirements apply to certain sensitive applications such as food contact and pharmaceuticals. Reference should always be made to local legislation regulating these applications.

Cariflex IR0310 KU Polymer is used as a replacement for natural rubber in a wide range of compounds, offering advantages of light color, uniformity and low levels of impurities. Its good flow characteristics produce improvements in mixing and molding behavior. It is used for food and pharmaceutical packaging and seals, baby bottle teats and health care, adhesives, chemical derivatives of rubbers and very light colored or transparent articles.

Sales Specifications

Property	Test Method	Units	Sales Specification Range	Notes
Ash	KM 35	%m	≤ 0.1	
Volatile Matter	KM 04	%m	≤ 0.5	
1,4-Cis, NMR	KM 34	%m	≥ 82	
1,4-Cis, FTIR	KM 34	%m	≥ 90	
LIV	KM 33	dL/g	6.1 TO 8.0	
LVN	KM 33	dL/g	7.0 TO 10.5	
Stabilizer	KM 31	%m	0.1 TO 0.3	
Viscosity, Mooney	ASTM D1646	MU	40 TO 53	

Typical Properties (These are typical values and may not routinely be measured on finished product)

Property	Test Method	Units	Typical Value	Notes
Tensile Strength, MD	ISO 37	MPa	≥ 21.6	a
300% Modulus	ISO 37	MPa	7.3 TO 12.2	a
Elongation at Break	ISO 37	%	≥ 428	a

a Cure: 40 mins at 135 deg. C

Packaging

Cariflex IR polymer is supplied in bales weighing approximately 25 kg. Bales are wrapped in 80 micron polyethylene film and packed in a corrugated cardboard box. Thirty-six bales (nominal 900kg) are stacked on a pallet.

Cariflex IR should be stored in an adequately ventilated area where it will not be subjected to sunlight, extreme temperatures or sources of ignition.

Storage:

Under correct conditions, Cariflex IR should have a storage life of at least 30 months from the date of production.