

Kraton® Cariflex,ç IR0307 K Polyisoprene

Category : Polymer , Thermoset , Rubber or Thermoset Elastomer (TSE)

Material Notes:

Description: Cariflex IR0307 KU polymer is a solution polymerized polyisoprene with a high cis-1,4 content. It has a high molecular weight as indicated by its Logarithmic Inherent Viscosity (LIV) value of 6.80 dl/g. It is supplied from North America in the physical form identified: Cariflex IR0307 KU - supplied as white/transparent solid bale
Region: Asia Pacific, Europe, Japan, North America, and South America
Uses: A non-staining stabilizer is added at the typical value of 0.1%. Cariflex IR0307 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 IR0307 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.
Applications: Adhesives, Sealant and Coatings; Compounding and Personal Hygiene; Medical; and Personal Care
Information provided by Kraton®

Order this product through the following link:

http://www.lookpolymers.com/polymer_Kraton-Cariflex-IR0307-K-Polyisoprene.php

Physical Properties	Metric	English	Comments
Volatiles	<= 0.50 %	<= 0.50 %	KM 04
Ash	<= 0.10 %	<= 0.10 %	KM 35

Mechanical Properties	Metric	English	Comments
Tensile Strength	>= 21.6 MPa	>= 3130 psi	Cure: 40 mins at 135Å°C; ISO 37
Elongation at Break	>= 428 %	>= 428 %	Cure: 40 mins at 135Å°C; ISO 37
300% Modulus	0.00860 - 0.0135 GPa	1.25 - 1.96 ksi	Cure: 40 mins at 135Å°C; ISO 37

Optical Properties	Metric	English	Comments
Transmission, Visible	90 %	90 %	transparent; thickness not quantified

Descriptive Properties	Value	Comments
Content	1,4-Cis, FTIR	>90%, KM 34
	1,4-Cis, NMR	>82%, KM 34
	LIV	6.0-7.6 dL/g, KM 33
	LVN	6.7-9.2 dL/g, KM 33
	Stabilizer	0.06-0.12%, KM 31

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