

Cariflex® IR0310 K

Polyisoprene

Kraton Polymers LLC

Message:

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.

General Information			
Additive	Unspecified Stabilizer		
Features	Good Flow		
	High Molecular Weight		
	High Purity		
Uses	Adhesives		
	Bottles		
	Food Packaging		
	Pharmaceutical Packaging		
	Rubber Replacement		
	Seals		
Appearance	Clear/Transparent		
	White		
Forms	Bale		
Physical	Nominal Value	Unit	Test Method
Mooney Viscosity	40 to 53	MU	ASTM D1646
1,4-cis Content			Internal Method
-- ¹	> 82.0	wt%	
-- ²	> 90.0	wt%	
Ash Content	< 0.10	%	Internal Method
Limiting Viscosity Number	700 to 1050	cm ³ /g	Internal Method
Stabilizer	0.10 to 0.30	%	Internal Method
Volatile Matter	< 0.50	%	Internal Method
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress ³ (300% Strain)	7.30 to 12.2	MPa	ISO 37
Tensile Stress - Flow ⁴ (Yield)	> 21.6	MPa	ISO 37

Tensile Elongation ⁵ (Break)	> 430	%	ISO 37
NOTE			
1.	NMR		
2.	FTIR		
3.	Cure: 40 min at 135°C		
4.	Cure: 40 min at 135°C		
5.	Cure: 40 min at 135°C		

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