SYNTHOS KralexÂ® 1732 Styrene Butadiene Rubber

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

Material Notes:

KRALEXÂ® 1732 is a Specific grade of oil extended styrene butadiene rubber. It is produced by a technology of cold emulsion polymerisation based on soaps of rosin and fatty acids and contains 32% of chemically bounded styrene. It is coagulated by a system of acid and organic coagulant, contains 24.5% (32.5 PHR) of extender oil with reduced content of polycyclic aromatics (MES grade) and is stabilized by staining antioxidant.It is appropriate for rubber compounds used in the production of car tires and inner tubes, including tire re-trading, conveyor belts and various technical rubber articles.KRALEXÂ® 1732 can be used in the same rubber compounds as KRALEXÂ® 1712 if the presence of polycyclic aromatics is not desirable.It is not approved for production of rubber articles coming into contact with foods or drinking water.Synthos was formerly known as Kaucuk. All information provided by Synthos.

Order this product through the following link:
http://www.lookpolymers.com/polymer_SYNTHOS-Kralex-1732-Styrene-Butadiene-Rubber.php

Physical Properties	Metric	English	Comments
Volatiles	<= 0.75 %	<= 0.75 %	ASTM D5668
Mooney Viscosity	40 - 48 @Temperature 100 Â°C	40 - 48 @Temperature 212 Â°F	(15-1.5 min); ASTM D3346
	48 - 56 @Temperature 100 Â°C	48 - 56 @Temperature 212 Â°F	(1+4); ASTM D1646
Ash	<= 0.40 %	<= 0.40 %	ASTM D5667

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	18.5 MPa	2680 psi	35'/145Â°C; ASTM D412
Elongation at Break	370 %	370 %	35'/145Â°C; ASTM D412
300% Modulus	0.0120 - 0.0180 GPa	1.74 - 2.61 ksi	35'/145Â°C; ASTM D412

Chemical Properties	Metric	English	Comments
Acid Value	3.8 - 6.2	3.8 - 6.2	ASTM D5774
Styrene Content	32 %	32 %	ASTM D5775

Descriptive Properties	Value	Comments
50% of Vulcanization t' 50 (min.)	6-9	ASTM D5289
Antioxidant Grade	Staining	
Compound Safety ts 1 (min.)	2.5-4.5	ASTM D5289

Descriptive Properties	Value	Comments
Ethanol-Toluene Extract (%)	2.1-3.2	ASTM D5774
Extender Oil Content (%)	22.5-26.5	
Extender Oil Grade	MES	
Maximal Moment (dNm)	15-19	ASTM D5289
Minimal Moment (dNm)	1.8-2.4	ASTM D5289
Optimal Vulcanization t' 90 (min.)	12-15	ASTM D5289
Soaps content (%)	<= 0.3	

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