SYNTHOS KralexÂ® 1712 Styrene Butadiene Rubber

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

Material Notes:

KRALEXÂ® 1712 is a standard 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 23.5% of chemically bounded styrene. It is coagulated by a system of acid and organic coagulant, contains 27% (37 PHR) of aromatic extender oil (DAE grade) and is stabilized by a staining antioxidant.KRALEXÂ® 1712 is appropriate for rubber compounds used in the production of car tires and inner tubes, including tire re-trading, conveyor belts, footwear and various technical rubber articles.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-1712-Styrene-Butadiene-Rubber.php

Physical Properties	Metric	English	Comments
Volatiles	<= 0.75 %	<= 0.75 %	ASTM D5668
Mooney Viscosity	36 - 46 @Temperature 100 Â°C	36 - 46 @Temperature 212 Â°F	(15-1.5 min); ASTM D3346
	44 - 54 @Temperature 100 Â°C	44 - 54 @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 - 0.0170 GPa	1.74 - 2.47 ksi	35'/145Â°C; ASTM D412

Chemical Properties	Metric	English	Comments
Acid Value	3.6 - 5.4	3.6 - 5.4	ASTM D5774
Styrene Content	23.5 %	23.5 %	ASTM D5775

Descriptive Properties	Value	Comments
50% of Vulcanization t' 50 (min.)	5.5-9.5	ASTM D5289
Antioxidant Grade	Staining	
Compound Safety ts 1 (min.)	2.2-4	ASTM D5289

Descriptive Properties	Value	Comments
Ethanol-toluene Extract (%)	29-35	ASTM D5774
Extender Oil Content (%)	27	
Extender Oil Grade	DAE	
Maximal Moment (dNm)	15-18	ASTM D5289
Minimal Moment (dNm)	2.0-2.6	ASTM D5289
Optimal Vulcanization t' 90 (min.)	11-15	ASTM D5289
Soaps content (%)	<= 0.3	

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