

SYNTHOS Kralex[®] 1706 Styrene Butadiene Rubber

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

Material Notes:

KRALEX[®] 1706 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 15% (17.5 PHR) of extender oil (DAE grade) and is stabilized by a staining antioxidant. KRALEX[®] 1706 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-1706-Styrene-Butadiene-Rubber.php

Physical Properties	Metric	English	Comments
Volatiles	<= 0.75 %	<= 0.75 %	ASTM D5668
Mooney Viscosity	33 - 43	33 - 43	(15-1.5 min); ASTM D3346
	@Temperature 100 Â°C	@Temperature 212 Â°F	
	44 - 54	44 - 54	(1+4); ASTM D1646
	@Temperature 100 Â°C	@Temperature 212 Â°F	
Ash	<= 0.40 %	<= 0.40 %	ASTM D5667

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	19.5 MPa	2830 psi	35'/145Â°C; ASTM D412
Elongation at Break	380 %	380 %	35'/145Â°C; ASTM D412
300% Modulus	0.0140 - 0.0190 GPa	2.03 - 2.76 ksi	35'/145Â°C; ASTM D412

Chemical Properties	Metric	English	Comments
Acid Value	4.2 - 6.2	4.2 - 6.2	ASTM D5774
Styrene Content	23.5 %	23.5 %	ASTM D5775

Descriptive Properties	Value	Comments
50% of Vulcanization t' 50 (min.)	6-9	ASTM D5289
Antioxidant Grade	Staining	
Compound Safety ts 1 (min.)	2-3.8	ASTM D5289

Ethanol-toluene Extract (%) Descriptive Properties	18-23 Value	ASTM D5774 Comments
Extender Oil Content (%)	15	
Extender Oil Grade	DAE	
Maximal Moment (dNm)	17-20	ASTM D5289
Minimal Moment (dNm)	2.0-2.5	ASTM D5289
Optimal Vulcanization t' 90 (min.)	17-20	ASTM D5289
Soaps content (%)	<= 0.3	

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