

SYNTHOS Kralex[®] 1778 Styrene Butadiene Rubber

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

Material Notes:

KRALEX[®] 1778 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 23.5% of chemically bounded styrene. It is coagulated by a system of acid and organic coagulant, contains 27% (37.5 PHR) of naphthenic extender oil and is stabilized by a non-staining antioxidant. KRALEX[®] 1778 is appropriate for rubber compounds used in the production of floor coverings, footwear, bicycle tires, articles from foam rubber and various rubber articles having light color shades. 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-1778-Styrene-Butadiene-Rubber.php

Physical Properties	Metric	English	Comments
Volatiles	<= 0.75 %	<= 0.75 %	ASTM D5668
Mooney Viscosity	35 - 47	35 - 47	(15-1.5 min); ASTM D3346
	@Temperature 100 Â°C	@Temperature 212 Â°F	
	42 - 54	42 - 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	18.5 MPa	2680 psi	35'/145Â°C; ASTM D412
Elongation at Break	350 %	350 %	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	3.5 - 6.5	3.5 - 6.5	ASTM D5774
Styrene Content	23.5 %	23.5 %	ASTM D5775

Descriptive Properties	Value	Comments
50% of Vulcanization t' 50 (min.)	6-10	ASTM D5289
Antioxidant Grade	Non-Staining	
Compound Safety ts 1 (min.)	2-3.8	ASTM D5289

Ethanol-toluene Extract (%) Descriptive Properties	29-35 Value	ASTM D5774 Comments
Extender Oil Content (%)	27	
Extender Oil Grade	NAPHTEN	
Maximal Moment (dNm)	15-17.5	ASTM D5289
Minimal Moment (dNm)	1.9-2.5	ASTM D5289
Optimal Vulcanization t' 90 (min.)	11-15	ASTM D5289
Soaps content (%)	<= 0.3	

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