HIPREN® EM 1712 T TDAE

Emulsion Styrene Butadiene Rubber

HIP-PetroHemija

Message:

HIPREN® EM 1712 T TDAE (HIPREN EM 1723) contains 23.5% styrene bounded in polymer. It is extended with 37.5 parts (w/w) of low aromatic TDAE oil per 100.0 parts (w/w) of polymer. The rubber is produced by low temperature emulsion copolymerization process with the use of resin and fatty acids soaps as emulsifiers and is coagulated by acid. The rubber contains a staining stabiliser added during the production process. The product is without nitrosoamine.

General Information			
Agency Ratings	EC 1907/2006 (REACH)		
Forms	Bale		
Physical	**Nominal Value**	**Unit**	**Test Method**
Mooney Viscosity - ML 1+4 (100°C)	49	MU	ISO 289
Ash Content	0.4	wt%	ISO 247
Organic Acid	4.5	wt%	ISO 7781
Soap	0.5	wt%	ISO 7781
Stabilizer [1]	0.4	wt%	
Volatile Matter	0.50	wt%	ISO 248
Rebound Resilience	> 30	%	ISO 4662
Cure Time [2]			ISO 6502
50% : 160°C	> 6.8	min	
90% : 160°C	> 13.0	min	
ETA Extract	32.0	wt%	ASTM D5774
Scorch Time (160°C) [3]	> 3.5	min	ISO 6502
Torque [4]			ISO 6502
Maximum : 160°C	16.5	dNm	
Minimum : 160°C	2.40	dNm	
Bound Styrene	23.5	%	ISO 2453
Hardness	**Nominal Value**	**Unit**	**Test Method**
Shore Hardness (Shore A)	64		ISO 868
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress (300% Strain)	13.7	MPa	ISO 37
Tensile Stress (Break)	> 19.0	MPa	ISO 37
Tensile Elongation (Break)	> 350	%	ISO 37
Thermal	**Nominal Value**	**Unit**	**Test Method**
Vicat Softening Temperature	91.5	°C	ASTM D1525
NOTE			
1.	10.4.2.1		

2.	Standard Test Recipie: ISO 2322; Mixing Procedure: ISO 2393; Carbon Black: IRB 7; Curemeter Test: Reometar MDR 2000; Conditions: Arc 0.5°
3.	Standard Test Recipie: ISO 2322; Mixing Procedure: ISO 2393; Carbon Black: IRB 7; Curemeter Test: Reometar MDR 2000; Conditions: Arc 0.5°
4.	Standard Test Recipie: ISO 2322; Mixing Procedure: ISO 2393; Carbon Black: IRB 7; Curemeter Test: Reometar MDR 2000; Conditions: Arc 0.5°

Recommended distributors for this material

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WECHAT