



PRODUCT SPECIFICATION
HIGH CIS POLYBUTADIENE : SKD-N(7EF)
(TY 38.303-02-119-2003)

PRODUCT DESCRIPTION (SKD_7EFVER.)
NEODYMIUM BASED CATALYST.

DATE : 04.03.2008
APPEARANCE: white bales

RAW POLYMER PROPERTIES

		METHOD (**)
CIS 1,4 content, %	96-99	
Mooney viscosity (pts) (ML 1+4 at 100 degC)	45+5	GOST 10722
Volatiles (wt %)	0,5 max.	GOST 19338
Ash (wt %)	0,4 max	GOST19816.4
Antioxidant (wt %)	0.2-0.6	GOST 19920.12
Density (g/cm3)	0.92	

RHEOMETRIC PROPERTIES (1)

Minimum torque, ML (dNm)	11.5 ^{+/-} 1	ISO 3417
Maximum torque, MHF (dNm)	40 ^{+/-} 3	ISO 3417
Scorchtime, ts 1 (min)	3,0 - 4,5	ISO 3417
50 % - Cure Time, t'c (50) (min)	6,5 - 9,0	ISO 3417
90 % - Cure Time, t'c (90) (min)	9,5 - 13	ISO 3417

TENSILE STRESS - STRAIN PROPERTIES

Stress at 300 % - elongation, MPa	6,5 - 10	GOST 19920,20
Tensile strength at break, MPa	14 - 19.1	GOST 19920,20
Elongation at break, %	400 - 550	GOST 19920,20
Rebound elasticity, % min.	51	GOST 19920,20

PACKAGING

Bale weight, (kg)	30 ^{+/-} 1
Film wrap	50MKM ^{+/-} 5
Pallet weight (kg)	about 450

REMARKS

(1) Rheometric and physical properties determined for the compound based on following recipe :
(ISO 2476 / Amendment 1)

SKD Rubber	100	Rheometer test conditions
Reference Black (Type HAF)	60	160°C, 1 degr., arc 1.7 Hz,
Zinc Oxide	3	
Stearic Acid	2	Mixing - mill mixing, method C2
Petroleum oil	15	
TBBS	0,9	Cure conditions: 35 min.
Sulphur	1,5	at 145 degC
		Stress - strain test pieces :
		dumb - bells, Type 1; Test - 23°C

(*) This specification refers to product from Efremov production units in Russia.

(**) Descriptions of Russian standards (GOST & TY) are available upon request.

Packing : polyfoil coated bales of about 30 kg packed on pallets of about 450 kg net weight.