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WellButren™ IIR-51

Isobutylene Isoprene Rubber

Composition

IIR-51 is a copolymer rubber of isobutylene and isoprene with high mooney viscosity.

Specification

Properties	Index	Test Method
Appearance	White-light rubber block	Visual
Mooney Viscosity (ML1+8, 125°C), MU	51 ± 5	GB/T 1232.1-2000
Volatiles, wt%	≤ 0.3	GB/T 24131-2009
Unsaturation, mol%	1.7 ± 0.2	GB/T 30922-2014
Total Ash, wt%	≤ 0.3	GB/T 4498.1-2013
Antioxidant (non-staining), wt%	≥ 0.03	Q/SD 030-2020

Cure Characteristics

Properties	Unit	Index	Test Method
FL	dN·m	3.3 ± 0.9	GB/T16584 Rotorless rheometer (MDR) 160℃*40min,0.5° arc
FH	dN·m	16.8 ± 1.4	
ts1	min	2.0±1.0	
tc50	min	5.3 ± 2.0	
tc90	min	20.4± 3.3	
Test Formulation	ISO 7663/ASTM D 3958 IIR-51 100, IRB#8 50, ZnO 5, Sulfur 1.75		



Applications

Regular Butyl Rubber IIR-51 has superior air impermeability, outstanding performance of heat-resistance, chemical corrosion-resistance, thermal aging resistance, and good curing performance. It can be widely used for inner tubes of tires, tire envelopes, medical stoppers, sealing materials, ball bladders, building sealants, electrical condensers, etc.

Safety & Toxicity

IIR-51 is a kind of elastomer with stable performances. It is harmless and not dangerous for humans, plants or animals. Please refer to SDS for relevant safety data and reference.

Packaging

25 kg/bale in PE film.

Storage Life & Conditions

Two years with keeping storage & transport under 35°C and protected against sunlight.

