

Technical Data Sheet Ricon® 153

High Vinyl Homopolymer of Butadiene

DESCRIPTION:

Ricon® 153 is a low molecular weight, liquid polybutadiene resin with high vinyl functionality for high reactivity, exceptional hydrophobicity and excellent processing characteristics. This resin is suitable for use in peroxide- and sulfur-cured elastomers, where it acts as a non-extractable plasticizer and process aid. Its polymeric structure gives excellent compatibility in saturated and unsaturated elastomers, especially olefinic-based elastomers and thermoplastic resins. The resin is a Type II coagent, giving excellent crosslink densities without affecting the rate of cure.

PRODUCT HIGHLIGHTS / PERFORMANCE PROPERTIES:

- High reactivity
- Non-extractable process aid
- Electrical insulator
- Excellent dielectric properties
- Excellent hydrophobicity
- Low temperature flexibility
- Coagent for elastomer cure
- Good hardness
- Scorch protection
- Good compression set
- Abrasion resistance
- High tear strength

SUGGESTED APPLICATIONS:

- Coatings
- Electronics
- Encapsulants
- Rubber
- Wire and cable
- Sealants
- Thermoplastic modification

TYPICAL PHYSICAL AND CHEMICAL PROPERTIES:

Property	Test Method	Value	Unit
Molecular Weight (Mn)	QCS-651	4,700	g/mol
1,2 Vinyl Content	QCS-642	85	wt. %
Viscosity @ 45°C	QCS-630	60,000	cps
Tg	QCS-681	-28	°C
Specific Gravity @ 25°C	QCS-649	0.89	-

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