

CRAY VALLEY

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	Value	Unit
Molecular Weight (Mn)	6,700	g/mol
1,2 Vinyl Content	85	wt. %
Viscosity @ 45°C	65,500	cps
Tg	-22	°C
Specific Gravity @ 25°C	0.89	-



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