

Technical Insight of KURARAY LIQUID RUBBER

GS-L-BR having Localized Functional Groups

Elastomer R&D Department
Elastomer Division

Agenda



Our silane-modified LBR; GS-L-BR is the latest development of KURARAY LIQUID RUBBER grades.

1) Silane modified LBR (GS-L-BR):

GS-L-BR-188, GS-L-BR-114 and SB-007

Silane modified Liquid Rubber (GS-L-BR)

- Functional groups are randomly attached to polybutadiene in GS-L-BR-114 and GS-L-BR-188.

Grade Name [Development Code]	Structure	Mw	T _g (°C)	Number of functional groups / chain	Viscosity at 38°C (Pa • s)
GS-L-BR-114* [SB-005]	Polybutadiene 	6,000	-50	2	6
GS-L-BR-188* [SB-006]	Polybutadiene 	38,000	-88	4	124

- SB-007 has localized functional group.
- SB-007 is expected to have similar property as telechelic functionalized polymers.

[SB-007]	Tri-block Copolymer of isoprene & butadiene  Bd block Ip block Bd block	7,000	-48	2.2	6
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*All polymers are in development stage.

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