

Silcolease® UV RCA 251

UV/EB Silicone CRA-plus Release Modifier

Description

Silcolease® UV RCA 251 UV/EB silicone CRA-plus release modifier is a 100% reactive release coating component based on modified epoxy-silicone copolymer technology. This CRA-plus polymer is designed with very high polarity and enables highly controlled and selective targeting of intermediate and tight release performance.

When blended with **Silcolease® UV POLY 200** UV/EB silicone polymer at any desired ratio along with **Silcolease® UV CATA 221** UV/EB cationic photoinitiator, **Silcolease® UV RCA 251** effectively functions as a tight Controlled Release Additive (CRA-plus). **Silcolease® UV RCA 251** and **Silcolease® UV Poly 200** UV/EB silicone polymers are completely miscible at all blend ratios. Release dynamics of these blends may be modified with the small addition of **Silcolease® UV RCA 200** or **Silcolease® PC-675** CRA-minus release modifiers for smoother, less zippy profiles. Rapid and stable cure with excellent anchorage to paper and film is achieved by simply passing the coating under high-intensity ultraviolet light (medium pressure mercury vapor bulbs) or under electron beam irradiation.

Typical Properties

Product Properties

	Value
• Appearance	Clear liquid
• Viscosity, cps, 25°C	1,000 – 4,000
• Color	200 maximum
• Turbidity, NTU	40 maximum

Please note: The typical properties listed in this bulletin are not intended for use in preparing specifications for any particular application of Silcolease® silicone materials. Please contact our Technical Service Department for assistance in writing specifications.

Starting Formulations

Component	Formulation (Parts by Weight)						
	A	B	C	D	E	F	G
• Silcolease® UV Poly 200	100	75	50	25	50	37.5	25
• Silcolease® UV RCA 251	-	25	50	75	50	62.5	75
• Silcolease® UV RCA 200	5	1	2	2	-	-	-
• Silcolease® PC 675	-	-	-	-	1	1	1
• Silcolease® UV CATA 232	2	2	2	2	2	2	2

Regulatory

Silcolease® UV RCA 251 when properly used is currently permitted for direct and indirect food contact under Sections 21CFR175.320, 21CFR176.170 and 21CFR176.180 of the Federal Register. A Technical Service Representative should be consulted for information on proper use and curing conditions.

Safety

Material Safety Data Sheets (MSDS) are available for **Silcolease® UV RCA 251** upon request. The information within the MSDS should not be interpreted as the sum total of all the protective measures to be taken when using a radiation curable silicone system. Standards of ventilation, toxicity, and fire prevention should be consulted to adequately utilize the data contained in the MSDS. Consult your Bluestar Sales or Technical Service Representative for additional Product Stewardship information. DO NOT reuse these containers. To obtain an MSDS for this product contact Bluestar at 866-474-6342.

Storage and shelf life

Silcolease® UV RCA 251 has a 12 month shelf life from date of manufacture when stored below 85°F (35°C) in its sealed, unopened containers. Beyond this date, Bluestar Silicones no longer guarantees that the product meets the sales specifications. Once opened, all containers should remain capped whenever not in actual use.

Packaging

Silcolease® UV RCA 251 is available in 20 kg and 200 kg containers

Silcolease[®] UV RCA 251

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Warning to the users

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