

Preliminary Technical Data Sheet BondLynx BLD-201

Bis-Diazirine Crosslinking Adhesive, Stabilizer & Functionalizing Agent

Product Description	BondLynx BLD-201 is an organic small-molecule bis-diazirine crosslinker that forms strong carbon-carbon bonds across and between polymer chains, including low surface energy polymers like polyethylene and polypropylene. BondLynx BLD-201 is a multipurpose product designed to bond adhesion-resistant polymers, enhance material strength, prevent degradation through molecular stabilization, and add functionality by making surfaces receptive to coatings, dyes and other adhesives.				
Physical Properties	Appearance	Melting Point	Solubility	Reactivity	
	White solid, odorless	49°C	Wide range of organic solvents, such as ethyl acetate or diethyl ether. Solvents with low boiling point preferred	Crosslinks via carbene insertion into aliphatic C-H, N-H, O-H bonds	
Application Technique	BondLynx BLD-201 must be mixed with solvent to form a solution before use. Best results are attained when applied to a smooth, clean, and dry surface. Topically apply as a thin layer and allow solvent to evaporate completely before activation. For reference, 5 mg per in² (or 1.5 mg per cm²) of BondLynx is generally sufficient coverage (ASTM 3163).				
Activation	Thermal Curing		Photo Curing	Photo Curing	
	80-115°C (175-240°F). Optimal activation at 105°C ± 5°C (220°F ± 10°F). 2 hours		Long-wave ultraviolet (UV) irradiation (365nm or 395nm)		
Compatible Substrates	Any commodity polymer (except certain fluoropolymers), regardless of surface energy.				
Uses	 Polymer crosslinker and adhesive Microelectronics and semiconductor manufacturing Perovskite, organic electronic & quantum dot stabilization Polymer textile strengthener 				
Storage	For best results, store neat (unmixed) in a freezer at or below -20°C / -4°F. Avoid exposure to heat and UV light.				
Shelf Life	When freezer-stored, BondLynx BLD-201 is expected to remain stable for 4+ years. For best performance, solutions should be refrigerated and used within 1-2 months of preparation.				
Environmental / Health	Non-hazardous, non-toxic. Contains fluorine.				
Disclaimer	To the best of our knowledge, all technical data contained herein is true and accurate as of the date of issuance and subject to change without prior notice. Given that many factors beyond the control of XLYNX Materials can affect the use and performance of XLYNX products in a particular application, the user is solely responsible for evaluating the product and determining whether it is fit for a particular purpose and suitable for the user's method of application.				