

Basonat® HI 190 B/S

Technical DataSheet | Supplied by BASF

Aliphatic polyisocyanate based on isocyanurate-modified hexamethylene diisocyanate (HDI). Exhibits excellent weather and chemical resistance, non-yellowing and physical properties. It is an approximately 90% solids solution in a 1:1 blend of n-butyl acetate and Solvesso 100. Can be diluted with esters, ketones, glycoether acetates or with aromatic hydrocarbons. Used to crosslink most hydroxy-containing resins and hydroxy functional polyesters. Recommended for the formulation of lightfast and weather-resistant two-pack polyurethane coatings. Suitable for interior & exterior general industrial metal coating, plastic component coating, wood coatings for floor, furniture or millwork, and automotive OEM or refinish applications. It is listed with TSCA, EPCRA 311/312 and EPCRA 313.

Product Type	Polyurethanes (PU) > PU-Prepolymers > Isocyanates > HDI-based
Chemical Composition	Polyisocyanate based on isocyanurate-modified hexamethylene diisocyanate (HDI)
Physical Form	Liquid
Appearance	Colorless to slightly yellow
Product Status	COMMERCIAL
Applications/ Recommended for	Coatings Coatings Markets > Automotive OEM > Soft-feel interior Coatings Markets > Automotive refinishing > Enamels > Two components systems Coatings Markets > General Industrial /Maintenance Coatings Markets > Metals Coatings Markets > Plastic coating Coatings Markets > Wood & Furniture Coatings > Furniture/ interior decoration
Labels/Agency Rating	TSCA, EPCRA 311/312, EPCRA 313

Basonat® HI 190 B/S Properties

Property	Value & Unit	Test Condition	Test Method
Isocyanate Content	19.3 - 20.3 %		
Viscosity	450 - 650 cP	At 23°C	

Color, APHA	< 60		
Solid Content	89 - 91 %		
Shear Rate D	1000 s ⁻¹		
Density	1.13 g/cm ³	At 20°C	
Isocyanate Equivalent Weight	212		
Melting Point	-25 °C		
Boiling Point	160 °C		
Flash Point	51.5 °C		DIN EN ISO 13736
Lower Explosion Limit	1.0 %	By Volume	
Upper Explosion Limit	7.5 %	By Volume	
Auto-ignition Temperature	430 °C		DIN 51794
Vapour Pressure	< 50 mbar		
Viscosity	450 - 650 mPa-s	At 23°C	DIN 53019
Solubility	Element	Test Condition	Test Method
Soluble in	Esters		
Soluble in	Ketones		
Soluble in	Glycolether Acetates		

Soluble in Aromatic Hydrocarbons

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