600 N Pine Island Road Plantation FL 33324-1311



Isonate 143L

Polycarbodiimide- modified Diphenylmethane diisocyanate

Catalog Nr. Q548

Definition ISONATE* 143L modified MDI is a polycarbodiimide-modified

diphenylmethane diisocyanate. Liquid at room temperature, this product has

a low viscosity and good storage stability down to 75°F (24°C). The polycarbodiimide

adduct offers extra flexibility because adduct formation is

reversible (dissociation generates an additional isocyanate function). The

carbodiimide linkage aids the stabilization of the polymer against

hydrolytic degradation. Because this product can be used

alone or in mixtures with prepolymers, its higher functionality offers faster

demold times than is ordinarily possible with linear prepolymers. A unique combination of high modified MDI content, available carbodiimide.

and liquid state allows ease of handling, ease of processing and maintenance of high physical properties under strenuous wear and

environmental conditions.

CAS Number

Application

• Adhesive and sealants, • Elastomers, • Coatings, • Automotive bumpers, fenders, fascia, • Integral-skin plastics, • Tires and wheels, • Industrial wheels, • Shoe soles.

Technical Data

Typical Properties:

Properties	Typical Value
Isocyanate equivalent weight2	144.5
NCO content by weight, %2	29.2
Hydrolyzable chloride, ppm2	30
Acidity, % as HCl2	0.002
Viscosity, cps @ 25°C2 (77°F)	33
Density, g/ml @ 25°C (lb/gal @ 77°F)	1.214 (10.1)
Vapor pressure, mm Hg @ 25°C (77°F)	<10-5
Extrapolated boiling point, °C (°F)	314 (597)
Appx. decomposition point, °C (°F)	230 (446)
Flash point, °C, ASTM D 93 Closed Cup (°F)	>177 (>351)
Specific heat, gm•cal/gm•°C	0.43
Thermal conductivity, gm•cal/cm•sec•°C	0.0003
Coefficient of thermal expansion, kg/l/1°C	0.0009
Heat of vaporization, cal/gm	86
Viscosity growth, cps/mo. @ 25°C3 (77°F)	2-5

Packaging & Handling

500 Lb drums

READ AND UNDERSTAND MSDS BEFORE HANDLING THIS PRODUCT.

UN Number Class Packaging Group

Remarks

Do not allow product temperature to fall below 75 F (18C). Crystallization may occur.

We cannot anticipate all conditions under which this information and our products, or the products of other manufacturers in combination with our products, may be used. We accept no responsibility for test results obtained by the application of this information or the safety and suitability of our products, either alone or in combination with other products. Users are advised to make their own test to determine the safety and suitability of each product or product combination for their own purposes. Unless otherwise agreed in writing, we sell the products without warranty, and buyers and users assume all responsibility and liability for loss or damage arising from the handling and use of our products, whether used alone or in combination with other products.