

Dow ISONATE™ 181 MDI Prepolymer

Category : Fluid , Polymer

Material Notes:

ISONATE™ 181 MDI prepolymer is a modified MDI compound produced by reacting high-purity diphenylmethane diisocyanate with sufficient glycol to allow easy handling down to 80°F. This medium-viscosity, super cooled liquid provides more rapid compatibility between isocyanates and polyols, which increases the effectiveness of catalysts present and usually results in a more easily controlled polymer reaction. Information provided by Dow

Order this product through the following link:

http://www.lookpolymers.com/polymer_Dow-ISONATE-181-MDI-Prepolymer.php

Physical Properties	Metric	English	Comments
Density	1.221 g/cc	0.04411 lb/in ³	
Viscosity	770 cP	770 cP	
Vapor Pressure	<= 1.33e-8 bar	<= 0.0000100 torr	

Thermal Properties	Metric	English	Comments
Heat of Vaporization	360 J/g	155 BTU/lb	
CTE, linear	737 µm/m-°C @Temperature 20.0 °C	409 µin/in-°F @Temperature 68.0 °F	volumetric
Specific Heat Capacity	1.80 J/g-°C	0.430 BTU/lb-°F	
Thermal Conductivity	0.126 W/m-K	0.870 BTU-in/hr-ft ² -°F	
Boiling Point	314 °C	597 °F	
Decomposition Temperature	230 °C	446 °F	
Flash Point	>= 177 °C	>= 351 °F	Closed Cup; ASTM D93

Chemical Properties	Metric	English	Comments
Acid Value	0.010	0.010	% as HCl

Descriptive Properties	Value	Comments
Hydrolyzable Chloride ppm	50	
Isocyanate Equivalent Weight	182	
NCO Content wt%	23	

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