

Dow ISONATE™ 125MDR Pure MDI

Category : Fluid , Polymer

Material Notes:

ISONATE™ 125MDR is a crystalline, pure MDI mixture is characterized by high purity, low acidity and reproducible reactivity. This difunctional product is a key ingredient in preparing prepolymers for polyurethane processing. Judicious use of polyols, extenders and additives permits the manufacture of thermoplastic polymers suitable for extrusion, injection molding or solution applications. 98% 4,4'-diphenylmethane diisocyanate and 2% 2,4'-diphenylmethane diisocyanate. Information provided by Dow

Order this product through the following link:

http://www.lookpolymers.com/polymer_Dow-ISONATE-125MDR-Pure-MDI.php

Physical Properties	Metric	English	Comments
Density	1.18 g/cc	0.0426 lb/in ³	
Viscosity	5.0 cP @Temperature 43.0 °C	5.0 cP @Temperature 109 °F	
Vapor Pressure	<= 1.33e-7 bar @Temperature 43.0 °C	<= 0.000100 torr @Temperature 109 °F	

Thermal Properties	Metric	English	Comments
Heat of Fusion	136 J/g	58.5 BTU/lb	
Heat of Vaporization	360 J/g	155 BTU/lb	
CTE, linear	762 µm/m-°C @Temperature 20.0 °C	423 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	0.0030	0.0030	% as HCl

Processing Properties	Metric	English	Comments
Shelf Life	1.50 Month	1.50 Month	(45 days) at 43°C, clear melt without filtration

Processing Properties	Metric	English	Comments
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Descriptive Properties	Value	Comments
Hydrolyzable Chloride ppm	18	
Isocyanate Equivalent Weight	125.5	
NCO Content wt%	33.5	

Contact Songhan Plastic Technology Co.,Ltd.

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