

Hexcel® HexPly® M47 140°C Curing Epoxy Matrix

Category : Polymer , Thermoset , Epoxy , Epoxy Cure Resin

Material Notes:

HexPly® M47 is a toughened, self extinguishing 140°C curing epoxy resin matrix that has been developed for the performance car market. It exhibits good strength retention at elevated temperature, good processability and excellent surface finish. Its high Tg allows HexPly® M47 to be considered as an alternative to 180°C curing matrices when a lower curing temperature is required. Information provided by HexCel

Order this product through the following link:

http://www.lookpolymers.com/polymer_Hexcel-HexPly-M47-140C-Curing-Epoxy-Matrix.php

Physical Properties	Metric	English	Comments
Density	1.24 g/cc	0.0448 lb/in ³	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	120 - 130 °C	248 - 266 °F	Epoxy Matrix Limit
Glass Transition Temp, Tg	143 °C	289 °F	After 1 hr at 120°C DSC 20°C/min
	155 °C	311 °F	After 1 hr at 140°C DSC 20°C/min

Processing Properties	Metric	English	Comments
Gel Time	2.00 - 3.50 min	2.00 - 3.50 min	
	@Temperature 140 °C	@Temperature 284 °F	
	8.00 - 13.0 min	8.00 - 13.0 min	
	@Temperature 120 °C	@Temperature 248 °F	
Shelf Life	12.0 Month	12.0 Month	
	@Temperature -18.0 °C	@Temperature -0.400 °F	

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