CMT Materials HYTAC® FLX Good Durability, Easily Machined & Polished Copolymer Syntactic

Category : Polymer , Thermoset , Epoxy

Material Notes:

HYTAC-FLX has been improved for optimum performance in transparent applications. The enhanced formulation is easy to polish and results in minimal to no scratches with transparent sheet materials. The formulation has been designed to minimize chilling of the sheet and bring more material into the tool resulting in improved material distribution. FLX may be used in plug applications with a wide range of polymer sheet material and provides easy machining and polishing plus very good curability. As compared to standard thermoset epoxy syntactics, FLX has nearly 3X the flexural toughness and more than 4X the elongation to break. FLX has these outstanding attributes: Minimal to no scratching Good dimensional stability Excellent toughness and durability Good machinabilityTemperature resistanceLow thermal conductivity Variety of Shapes and Sizes: The material is provided in standard sized rods or sheets, but may be custom molded to meet the specific needs. Applications: HYTAC-FLX is a top choice for optical clarity with PET, provides excellent polymer yields as a result of better material distribution, lower starting gauge requirements and is more than double the flexural toughness of standard syntactic foams. Recommended for use with APET, CPET, HIPS, OPS, PETG, PLA, PP, PVC and RPET.Information Provided by CMT Materials, Inc.

Order this product through the following link:
http://www.lookpolymers.com/polymer_CMT-Materials-HYTAC-FLX-Good-Durability-Easily-Machined-Polished-Copolymer-Syntactic.php

Physical Properties	Metric	English	Comments
Density	0.705 - 0.769 g/cc	0.0255 - 0.0278 lb/in³	

Mechanical Properties	Metric	English	Comments
Flexural Toughness	0.0524 MPa	7.60 psi	ASTM D790
Compressive Strength	92.05 MPa	13350 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	41.4 µm/m-°C	23.0 µin/in-°F	
Thermal Conductivity	0.110 W/m-K	0.763 BTU-in/hr-ft²-°F	
Maximum Service Temperature, Air	177 °C	350 °F	

Descriptive Properties	Value	Comments
Color	Pink	

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