ECCOSORB®MF-TPE

Magnetically Loaded Flexible Thermoplastic Absorber

FLEXIBLE INJECTION MOLDABLE THERMOPLASTIC ABSORBER

Eccosorb MF-TPE represents a family of injection molded absorbers based on a flexible thermoplastic matrix with high magnetic loss. As such, Eccosorb MF-TPE is an alternative to Eccosorb MF-PP when flexibility is required. Both products are the ideal choice for medium to high volume applications.

FEATURES AND BENEFITS

- Thermoplastic polymer amenable to injection molded processes
- Injection molding is ideal for complex shapes and high volume applications – results in lower part cost
- Environmentally friendly, RoHS/Reach compliant

MARKETS

- Telecom infrastructure and wireless networks
- Automotive radar
- Satellite communications
- Military electronics
- Industrial instrumentation
- Medical

SPECIFICATIONS

TYPICAL PROPERTIES	ECCOSORB MF-TPE
Tensile Strength (MPa)	6
Service Temperature °C (°F)	85 (185)
Density (g/cm³)	4.1
Hardness (Shore A)	60
Elongation %	1800

Data for design engineer guidance only. Observed performance varies in application. Engineers are reminded to test the material in application.

APPLICATIONS

- Eccosorb MF-TPE products can be used as attenuator and termination in waveguides, coaxial or stripline application.
- Other applications include phase shifters in phased array antennas and structural covers to suppress interferences

AVAILABILITY

- Eccosorb MF-TPE-120 is the standard available grade. Other grades with intermediate losses are available upon request.

Our application engineers will assist the customer in the complete process, from design to final product. The customized solutions mostly come with a smart mechanical fixing so that no glue is required.

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