

### Polyamide Thermoplastic Absorber

Eccosorb JCP PA is an injection molded absorber grade based on polyamide resin .Polyamide is a major engineering and high performance thermoplastic class thanks to its good balance of properties .

JCP PA has been formulated to achieve reduction of interference and enhanced performances as absorber especially in the mm wave band. Its high strength and rigidity turn it in a material of selection across many application and market from consumer, industrial ,automotive to military aerospace .

JCP-PA is compliant with our 3D structure Rezorb concept for improved performances in the 60-90 Ghz band and can be used as an alternative to our Rezorb JCP PP for high demanding applications.



### FEATURES AND BENEFITS

- High loss
- High temperature
- Superior mechanical properties
- High Frequency applications 35-100Ghz
- REACH and ROHS compliant

### MARKETS

Consumer  
Automotive ADAS  
Industrial  
Telecom/Datacom  
Aerospace

PROPERTIES	JCP PA Typical Properties
Color	Black
Operating Temperature	-40°C to 170°C
Attenuation	100 dB/cm at 70 Ghz
Insertion Loss @ 77GHz	-15 dB
Density	1.24 g/cc
Hardness	35 Shores D
Tensile Strength @ break	100 MPa
Tensile Elongation @ break	2.5%
Flexural Strength	175 MPa
Flexural Modulus	5000 MPa
Flammability	UL94 HB
Volume Resistivity	>20,000 Ohm cm

### APPLICATIONS

- Thermoplastic absorber are of benefits in high volume and/or 3D parts where reflectivity attenuation is required
- JCP PA is recommended in application requiring high mechanical and temperature properties like cover , bracket and any structural part where surface reflection attenuation is necessary . It includes board level shield electronics , bracket for sensors and connectors.

## AVAILABILITY

- JCP PA is available as finished injected part according to customer 's drawing .Please contact the engineering team for feasibility
- Standard sample plaques 100x100 mm are available in flat surface 2 mm thickness and in Rezorb textured configuration for evaluation

