

Flow Plates for Fuel Cells

Manufacturing technology:

IRD can offer low cost press moldings for high volume serial production, CNC machining for small series prototype plates or blank composite plates for your own processing tooling.

Flow channel design

IRD can manufacture flow plates in all sizes with your proprietary pattern design. You may also purchase one of our existing and well proven designs, or let us help you to design a new pattern specifically for your application.

Product Advantages

IRD Flow Plates offer excellent electrical and thermal conductivity at competitive prices, using state of the art flow plate design combined with carefully selected raw material compounds and mass production techniques.

IRD Flow Plates Technical Properties

Physical Properties

Bulk Density	1.83 g/cm ³
Water Adsorption	< 0.1 %

Mechanical Properties

Flexural Strength	43 MPa
Compressive strength	76 MPa
Young Modulus	10 GPa

Electrical properties

Specific electrical resistance	
in plane xy	100 $\mu\Omega\text{m}$
through plane z	200 $\mu\Omega\text{m}$

Thermal Properties

In plane conductivity	43.7 W/mK
Through plane conductivity	18.5 W/mK
Glass transition temperature	200 °C

IRD

IRD Fuel Cell Technology ranges among the leading experts in the fuel cell business, and has been working with R&D, design and manufacturing of Fuel Cells since 1982.



For additional information, please visit our website at www.ird.dk, or contact:

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IRD
Fuel Cell Technology

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