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# MECHANICAL CHARACTERIZATION OF ZNSE WINDOWS FOR USE WITH THE FLOW ENCLOSURE ACCOMMODATING NOVEL INVESTIGATIONS IN COMBUSTION OF SOLIDS (FEANICS) MODUL



Mechanical Characterization of ZnSe Windows for Use With the Flow Enclosure Accommodating Novel Investigations in Combustion of Solids (FEANICS) Module

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Bibliogov. Paperback. Book Condition: New. This item is printed on demand. Paperback. 28 pages. Dimensions: 9.7in. x 7.4in. x 0.1in. Mechanical and physical properties of ZnSe windows to be used with the FEANICS (Flow Enclosure Accommodating Novel Investigations in Combustion of Solids) experiments were measured in order to determine design allowables. The average Young's modulus, Poisson's ratio, equibiaxial fracture strength, flaw size, grain size, Knoop hardness, Vickers hardness, and branching constant were 74.3 - 0.1 GPa, 0.15 - 0.25, 100 - 150 MPa, 0.5 - 1.0 μm, 0.5 - 1.0 μm, 1000 - 1500 MPa, 1000 - 1500 MPa, and 0.1 - 0.2, respectively.

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