

AF-200 ALL FIBERGLASS DOOR TEST RESULTS

AF-150 Framing
Tensile Strength, ASTM-D638: 15,900 psi.
Tensile Modulus of Elasticity, ASTM-D638: 1.58×10^6 psi.
Maximum Compressive Strength, ASTM-D695: 15,500 psi.
Compressive Modulus of Elasticity, ASTM-D695: 6.7×10^5 psi.
Flexural Strength, ASTM-D790: 39.3×10^3 psi.
Flexural Modulus, ASTM-D790: 1.23×10^6 psi.
Izod Impact, ASTM-D256: 8.1 ft-lb/in.
Barcol Hardness, ASTM-D2583: 57.
Specific Gravity, ASTM-D792: 1.45 @ 23 °C.
Density, ASTM-D792: 1445.6 kg.m^3 @ 23 °C.
Coefficient of Linear Expansion, ASTM-D696: 1.26×10^{-5} in/in/°F.
Short Beam Strength, ASTM-D2344: 3,980 psi.
Fastener Withdrawal, ASTM-D1761: 924 lbs.
Percent Fiberglass: 60%.
Door and AF-150 Frame Assembly
PP Polypropylene Honeycomb Core.
Thermal Transmittance, NFRC 100.
<i>Opaque Swinging Door (< than 50% glass)</i>
U-Factor = 0.26 Btu/hr-ft ² -°F.
<i>Commercially Glazed Swinging Entrance Door (> than 50% glass)</i>
U-Factor = 0.44 Btu/hr-ft ² -°F.
Air Leakage, NFRC 400, ASTM-E283.
<i>Opaque Swinging Door (< than 50% glass)</i>
0.00 cfm/sqft @ 1.57 psf.
0.00 cfm/sqft @ 6.24 psf.
<i>Commercially Glazed Swinging Entrance Door (> than 50% glass)</i>
0.04 cfm/sqft @ 1.57 psf.
0.05 cfm/sqft @ 6.24 psf.
STC and OITC, ASTM-E90:
STC = 31, OITC = 26.
Expanded Polystyrene Core.
Thermal Transmittance, NFRC 100.
<i>Opaque Swinging Door (< than 50% glass)</i>
U-Factor = 0.24 Btu/hr-ft ² -°F.
<i>Commercially Glazed Swinging Entrance Door (> than 50% glass)</i>
U-Factor = 0.43 Btu/hr-ft ² -°F.
Air Leakage, NFRC 400, ASTM-E283.
<i>Opaque Swinging Door (< than 50% glass)</i>



0.02 cfm/sqft @ 1.57 psf.
0.06 cfm/sqft @ 6.24 psf.
Commercially Glazed Swinging Entrance Door (> than 50% glass)
0.30 cfm/sqft @ 1.57 psf.
0.53 cfm/sqft @ 6.24 psf.
STC and OITC, ASTM-E90:
STC = 30, OITC = 30.