



PRODUCT DATA SHEET

PRODUCT SERIES: S50 SERIES SMC
PRODUCT DESCRIPTION: ELECTRICAL GRADE

| PROPERTIES | GLASS CONTENT 15% | | GLASS CONTENT 22% | | GLASS CONTENT 30% | |
|---|---------------------------|-----------------------|---------------------------|-----------------------|---------------------------|-----------------------|
| | IMPERIAL | SI | IMPERIAL | SI | IMPERIAL | SI |
| Impact Strength-Izod Notched Test Method: ASTM D-256 | 12.0 ft.lb./in. | 640 J/m | 14.0 ft.lb./in. | 747 J/m | 16.0 ft.lb./in. | 854 J/m |
| Impact Strength-Izod Unnotched Test Method: ASTM D-4812 | 16.0 ft.lb./in. | 854 J/m | 17.0 ft.lb./in. | 907 J/m | 20.0 ft.lb./in. | 1067 J/m |
| Flexural Strength Test Method: ASTM D-790 | 15,000 psi | 69 MPa | 20,000 psi | 138 MPa | 25,000 psi | 172 MPa |
| Tensile Strength Test Method: ASTM D-638 | 9,000 psi | 62 MPa | 10,000 psi | 69 MPa | 12,000 psi | 83 MPa |
| Compressive Strength Test Method: ASTM D-695 | 23,000 psi | 158 MPa | 25,000 psi | 172 MPa | 28,000 psi | 193 MPa |
| Water Absorption (24 Hrs @ 23C) Test Method: ASTM D-570 | .20-.30% | .20-.30% | .20-.30% | .20-.30% | .20-.30% | .20-.30% |
| Barcol Hardness Test Method: ASTM D-2583 | 50-60 | 50-60 | 50-60 | 50-60 | 50-60 | 50-60 |
| Heat Distortion Temp @ 264 psi Test Method: ASTM D-648 | >400 F | >204 C | >400 F | >204 C | >400 F | >204 C |
| Specific Gravity (+/- .03) Test Method: ASTM D-792 | 1.80-2.0 | 1.80-2.0 | 1.80-2.0 | 1.80-2.0 | 1.80-2.0 | 1.80-2.0 |
| Shrinkage Test Method: ASTM D-955 | .001-.003 in/in | .001-.003 mm/mm | .001-.003 in/in | .001-.003 mm/mm | .001-.003 in/in | .001-.003 mm/mm |
| Flammability @ 1.47 mm thickness Test Method: ASTM D-635 | AEB<.20 in. ATB=5 sec. | AEB<5mm ATB=5 sec. | AEB<.20 in. ATB=5 sec. | AEB<5mm ATB=5 sec. | AEB<.20 in. ATB=5 sec. | AEB<5mm ATB=5 sec. |
| Ignition Temperature Test Method: UL Test Method | 968 F | 520 C | 968 F | 520 C | 968 F | 520 C |
| Track Resistance Test Method: Incline Plane | 820 | 820 | 820 | 820 | 775 | 775 |
| Dielectric Strength (S.T., Perp, VPM) Test Method: ASTM D-149 | 550 | 550 | 550 | 550 | 550 | 550 |

The information contained herein and in the data sheets is offered as a guide only. Since the values achieved in actual parts depend considerably on the part design and on the conditions of moulding and testing, no guarantee is implied regarding properties to be obtained in specific tests; the user is urged to make his own tests and judge for himself the suitability of the material for his use. Jet Moulding Compounds assumes no liability, either expressed or implied, for infringement of any patent by the manufacture, sale or use of articles moulded from its material.