

# Material Properties

## ENGRAVABLE PLASTICS

### Material Name: LaserMetallicBrush

| Properties:                      | Typical Values                     | ASTM Method |
|----------------------------------|------------------------------------|-------------|
| Tensile Modulus:                 | 270,000 psi                        | D-638       |
| Tensile Strength:                | 5,500 psi                          | D-638       |
| Flexural Modulus:                | 270,000 psi                        | D-790       |
| Flexural Strength:               | 10,300 psi                         | D-790       |
| Gravity:                         | 1.15                               | D-792       |
| Rockwell Hardness:               | 45M                                | D-785       |
| IZOD Impact Strength             |                                    |             |
| Notched at 73°F (22.777°C)       | 1.10 ft lbs/in                     | D-256       |
| Heat Deflection Temperature      |                                    |             |
| ASTM D-648 (0.455 MPa; annealed) | 192 degrees F                      | D-648       |
| ASTM D-648 (1.82 MPa; annealed)  | 175 degrees F                      | D-648       |
| Melt Flow Rate                   | 1.0g/10 min (230 degrees C/3.8 kg) | D-1238      |



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