

# SHUMAN COMPOUND: DATA SHEET

**DESCRIPTION: POLYPROPYLENE COPOLYMER 502 BLACK**

**OFFERS THIS COMBINATION OF PROPERTIES:**

GOOD IMPACT STRENGTH, EXCELLENT CHEMICAL RESISTANCE, EXCELLENT PROCESSABILITY, GOOD RESISTANCE TO FATIGUE FROM FLEXING

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## TYPICAL PROPERTIES

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### MECHANICAL PROPERTIES

| <u>MECHANICAL PROPERTIES</u>                        | <u>VALUE</u> | <u>UNITS</u> | <u>TEST METHODS</u> |
|---|--------------|--------------|---------------------|
| IZOD IMPACT STRENGTH (NOTCHED, 1/8" THICK SPECIMEN) | 1.6 (MIN)    | FT-LBS/IN    | ASTM D-256          |
| TENSILE STRENGTH                                    | 4057         | PSI          | ASTM D-638          |

### THERMAL PROPERTIES

|                                       |     |    |             |
|---------------------------------------|-----|----|-------------|
| HEAT DEFLECTION TEMPERATURE @ 264 PSI | 117 | °F | ASTM D-648  |
| VICAT SOFTENING TEMPERATURE           | 300 | °F | ASTM D-1525 |

### OTHER PROPERTIES

|                         |   |            |             |
|-------------------------|---|------------|-------------|
| SPECIFIC GRAVITY        | 0.9   |            | ASTM D-792  |
| MELT FLOW RATE (RANGES) | 5.0 - 8.9<br>9.0 - 12.9<br>13.0 - 16.9<br>17.0 - 22.0 | GM/10 MIN. | ASTM D-1238 |

**SUGGESTED PROCESSING CONDITIONS:** 370° - 420°F

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