



**Product Data Sheet &  
General Processing Conditions**

**ZOVGOV® M24G6FR  
Nylon 4/6 (PA)  
Glass Fiber  
Flame Retardant  
Heat Stabilized**

**PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS**

| <b>PERMANENCE</b>                            | <b>English</b>        | <b>SI Metric</b> | <b>ASTM TEST</b> |
|--|-----------------------|------------------|------------------|
| Primary Additive                             | 30 %                  | 30 %             |                  |
| Specific Gravity                             | 1.68                  | 1.68             | D 792            |
| Molding Shrinkage<br>1/8 in (3.2 mm) section | 0.0030 - 0.0050 in/in | 0.30 - 0.50 %    | D 955            |
| Water Absorption, 24 hrs @ 23°C              | 1.600 %               | 1.600 %          | D 570            |

**MECHANICAL**

|  |                            |             |        |
|--|----------------------------|-------------|--------|
| Impact Strength, Izod<br>notched 1/8 in (3.2 mm) section | 1.2 ft-lbs/in              | 64 J/m      | D 256  |
| unnotched 1/8 in (3.2 mm) section                        | 12.0 ft-lbs/in             | 641 J/m     | D 4812 |
| Tensile Strength   | 22000 psi                  | 152 MPa     | D 638  |
| Tensile Elongation                                       | 2.0 - 3.0 %                | 2.0 - 3.0 % | D 638  |
| Tensile Modulus  | 1.65 x 10 <sup>6</sup> psi | 11377 MPa   | D 638  |
| Flexural Strength  | 33000 psi                  | 228 MPa     | D 790  |
| Flexural Modulus   | 1.70 x 10 <sup>6</sup> psi | 11722 MPa   | D 790  |
| Hardness<br>Rockwell, R                                  | 120                        | 120         | D 785  |

**ELECTRICAL**

|                    |               |               |       |
|--------------------|---------------|---------------|-------|
| Volume Resistivity | > 1E14 ohm.cm | > 1E14 ohm.cm | D 257 |
|--------------------|---------------|---------------|-------|

**THERMAL**

|  |               |              |        |
|--|---------------|--------------|--------|
| Deflection Temperature<br>@ 264 psi (1820 kPa) | 550 °F        | 288 °C       | D 648  |
| Ignition Resistance*<br>Flammability**         | V-0 @ 1/32 in | V-0 @ 0.8 mm | D 3801 |
| Limiting Oxygen Index**                        | 37.0 %        | 37.00 %      | D 2863 |

**PROPERTY NOTES**

Data herein is typical and not to be construed as specifications.

Unless otherwise specified, all data listed is for natural or black colored materials. Pigments can affect properties.

\* This rating is not intended to reflect hazards of this or any other material under actual fire conditions.

\*\* Values per MOLAN Company testing.

**GENERAL PROCESSING FOR INJECTION MOLDING**

|                    | <b>English</b>    | <b>SI Metric</b> |
|--------------------|-------------------|------------------|
| Injection Pressure | 10000 - 15000 psi | 69 - 103 MPa     |
| Melt Temperature   | 560 - 620 °F      | 293 - 327 °C     |
| Mold Temperature   | 175 - 300 °F      | 79 - 149 °C      |
| Drying             | 4 hrs @ 250 °F    | 4 hrs @ 121 °C   |
| Moisture Content   | 0.05 %            | 0.05 %           |
| Dew Point          | -40 °F            | -40 °C           |

**PROCESSING NOTES**