

# Matrixx 75S5251

Polyamide 66  
LyondellBasell Industries  
Engineering Plastics

| General                |                                     |  |  |
|------------------------|-------------------------------------|--|--|
| Filler / Reinforcement | • Glass Fiber, 25% Filler by Weight |  |  |
| Additive               | • Flame Retardant                   |  |  |
| Features               | • Flame Retardant                   |  |  |
| Forms                  | • Pellets                           |  |  |

  

| Physical                   | Nominal Value (English) | Nominal Value (SI)     | Test Method |
|----------------------------|-------------------------|------------------------|-------------|
| Density / Specific Gravity | 1.55                    | 1.55 g/cm <sup>3</sup> | ASTM D792   |

  

| Mechanical                 | Nominal Value (English) | Nominal Value (SI) | Test Method |
|----------------------------|-------------------------|--------------------|-------------|
| Tensile Strength (Yield)   | 19500 psi               | 134 MPa            | ASTM D638   |
| Flexural Modulus - Tangent | 1.30E+6 psi             | 8960 MPa           | ASTM D790   |

  

| Impact              | Nominal Value (English) | Nominal Value (SI) | Test Method |
|---------------------|-------------------------|--------------------|-------------|
| Notched Izod Impact | 1.3 ft·lb/in            | 69 J/m             | ASTM D256   |

  

| Thermal                           | Nominal Value (English) | Nominal Value (SI) | Test Method |
|-----------------------------------|-------------------------|--------------------|-------------|
| Deflection Temperature Under Load |                         |                    | ASTM D648   |
| 66 Psi (0.45 Mpa), Unannealed     | 490 °F                  | 254 °C             |             |
| 264 Psi (1.8 Mpa), Unannealed     | 470 °F                  | 243 °C             |             |
| RTI Str                           | 150 °F                  | 65.6 °C            | UL 746B     |

  

| Flammability     | Nominal Value (English) | Nominal Value (SI) | Test Method |
|------------------|-------------------------|--------------------|-------------|
| Flame Rating     |                         |                    | UL 94       |
| 0.06 In (1.5 Mm) | V-1                     | V-1                |             |
| 0.10 In (2.5 Mm) | 5VA                     | 5VA                |             |

## Notes

These are typical property values not to be construed as specification limits.

