

Technical Data Sheet

# Lucent Pom POM-500

Acetal (POM) Homopolymer  
 LyondellBasell Industries  
 Engineering Plastics

**Product Description**

Acetal Homopolymer, General Purpose Injection Grade

Colors Available  
 Add "U" for UV Stabilized

**General**

|                   |                     |               |
|-------------------|---------------------|---------------|
| Features          | • General Purpose   | • Homopolymer |
| Uses              | • General Purpose   |               |
| Appearance        | • Colors Available  |               |
| Processing Method | • Injection Molding |               |

| Physical                                  | Nominal Value (English) | Nominal Value (SI)     | Test Method |
|---|-------------------------|------------------------|-------------|
| Density / Specific Gravity                | 1.42                    | 1.42 g/cm <sup>3</sup> | ASTM D792   |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 Kg) | 12 g/10 min             | 12 g/10 min            | ASTM D1238  |
| Mechanical                                | Nominal Value (English) | Nominal Value (SI)     | Test Method |
| Tensile Strength (Yield)                  | 10000 psi               | 68.9 MPa               | ASTM D638   |
| Tensile Elongation (Break)                | > 20 %                  | > 20 %                 | ASTM D638   |
| Flexural Modulus                          | 410000 psi              | 2830 MPa               | ASTM D790   |
| Flexural Strength                         | 14500 psi               | 100 MPa                | ASTM D790   |
| Impact                                    | Nominal Value (English) | Nominal Value (SI)     | Test Method |
| Notched Izod Impact                       |                         |                        | ASTM D256   |
| 73°F (23°C), 0.125 In (3.18 Mm)           | 1.3 ft·lb/in            | 69 J/m                 |             |
| Thermal                                   | Nominal Value (English) | Nominal Value (SI)     | Test Method |
| Deflection Temperature Under Load         |                         |                        | ASTM D648   |
| 264 Psi (1.8 Mpa), Unannealed             | 275 °F                  | 135 °C                 |             |
| Peak Melting Temperature                  | 338 to 347 °F           | 170 to 175 °C          | ASTM D789   |

**Notes**

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