# Nylene® 894

**Polymeric Resources Corporation (PRC) - *Polyamide 6***

## General Information

**Product Description**

- Rotational Molding Engineered, Heat Stabilized, Nylon Copolymer
- CARB and EPA Fuel Permeation Regulation Compliant

| General | | |
|---|---|---|
| Material Status | • Commercial: Active | |
| Availability | • North America | |
| Additive | • Heat Stabilizer | |
| Features | • Copolymer | • Heat Stabilized |
| Appearance | • Natural Color | |
| Forms | • Pellets | |
| Processing Method | • Rotational Molding | |

## Properties [1]

| Physical | Nominal Value | Unit | Test Method |
|---|---|---|---|
| Density / Specific Gravity | 1.10 | | ASTM D792 |
| Water Absorption (Equilibrium) | 1.8 | % | ASTM D570 |
| **Mechanical** | **Nominal Value** | **Unit** | **Test Method** |
| Tensile Strength (Yield, 73°F) | 10400 | psi | ASTM D638 |
| Tensile Elongation (Break) | > 50 | % | ASTM D638 |
| Flexural Modulus | 350000 | psi | ASTM D790 |
| **Impact** | **Nominal Value** | **Unit** | **Test Method** |
| Impact Strength [2] (73°F) | 50 | ft·lb | ARM |
| **Thermal** | **Nominal Value** | **Unit** | **Test Method** |
| Deflection Temperature Under Load (66 psi, Unannealed, 0.125 in) | 216 | °F | ASTM D648 |
| Deflection Temperature Under Load (264 psi, Unannealed, 0.125 in) | 120 | °F | ASTM D648 |
| Peak Melting Temperature | 428 | °F | ASTM D3418 |
| **Flammability** | **Nominal Value** | **Unit** | **Test Method** |
| Flame Rating (0.12 in) | HB | | UL 94 |
| Automotive Burn Test | Pass | | FMVSS 302 |

## Processing Information

| Injection | Nominal Value | Unit |
|---|---|---|
| Drying Time | 0.33 to 0.42 | hr |
| Suggested Max Moisture | 0.20 | % |
| Processing (Melt) Temp | 550 to 649 | °F |

## Notes

[1] Typical properties: these are not to be construed as specifications.

[2] Roto Specimen