

AuroraFlex™ 8155N

Aurora Material Solutions, LLC - *Thermoplastic Elastomer*

General Information

Product Description

8155N is colorable thermoplastic elastomer formulated for applications that require rubber-like properties and a good surface finish. 8155N is FDA compliant and well suited for consumer goods and industrial applications requiring UV stability. 8155N can be overmolded to polypropylene.

General

| | | | |
|-------------------|-------------------------|---------------------------|-----------------|
| Material Status | • Commercial: Active | | |
| Availability | • Africa & Middle East | • Europe | • North America |
| | • Asia Pacific | • Latin America | |
| Additive | • UV Stabilizer | | |
| Features | • Good Colorability | • Good Surface Finish | • UV Stabilized |
| Uses | • Consumer Applications | • Industrial Applications | • Overmolding |
| Agency Ratings | • FDA | | |
| Processing Method | • Extrusion | • Injection Molding | |

Properties ¹

| Physical | Nominal Value | Unit | Test Method |
|--------------------------------------|---------------|--------|-------------|
| Density / Specific Gravity | 1.16 | | ASTM D792 |
| Elastomers | Nominal Value | Unit | Test Method |
| Tensile Stress (100% Strain) | 290 | psi | ASTM D412 |
| Tensile Strength | 606 | psi | ASTM D412 |
| Tensile Elongation (Break) | 590 | % | ASTM D412 |
| Tear Strength | 116 | lbf/in | ASTM D624 |
| Hardness | Nominal Value | Unit | Test Method |
| Durometer Hardness (Shore A, 10 sec) | 55 | | ASTM D2240 |

Processing Information

| Injection | Nominal Value | Unit |
|-------------------------|--------------------|------|
| Rear Temperature | 345 to 376 | °F |
| Front Temperature | 354 to 385 | °F |
| Nozzle Temperature | 365 to 399 | °F |
| Mold Temperature | 70 to 100 | °F |
| Injection Rate | Moderate-Fast | |
| Back Pressure | 50.0 to 99.9 | psi |
| Screw Compression Ratio | 2.5:1.0 to 3.0:1.0 | |

