

# Achieve™ Advanced PP6302E1

## Polypropylene Homopolymer

### Product Description

A high melt strength homopolymer with long chain branching that provides excellent processability in foamed applications.

### General

|                   |                                                                                                                                        |                                                                                                                                                         |                                                                                                                                          |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| Features          | <ul style="list-style-type: none"> <li>Foamable</li> <li>High Melt Strength</li> <li>High Stiffness</li> </ul>                         | <ul style="list-style-type: none"> <li>Long Chain Branching</li> <li>Regrind and Blending Performance</li> <li>Strain Hardening</li> </ul>              | <ul style="list-style-type: none"> <li>Thermal and Acoustic Insulation</li> </ul>                                                        |
| Uses              | <ul style="list-style-type: none"> <li>Automotive Applications</li> <li>Cap Liners</li> <li>Composites</li> <li>Compounding</li> </ul> | <ul style="list-style-type: none"> <li>Construction Applications</li> <li>Heavy Transportation</li> <li>Material Handling</li> <li>Packaging</li> </ul> | <ul style="list-style-type: none"> <li>Recyclable Food Packaging</li> <li>Reusable Durable Packaging</li> <li>Rigid Packaging</li> </ul> |
| Appearance        | <ul style="list-style-type: none"> <li>Natural Color</li> </ul>                                                                        |                                                                                                                                                         |                                                                                                                                          |
| Form(s)           | <ul style="list-style-type: none"> <li>Pellets</li> </ul>                                                                              |                                                                                                                                                         |                                                                                                                                          |
| Processing Method | <ul style="list-style-type: none"> <li>Extrusion</li> <li>Foam Blow Molding</li> </ul>                                                 | <ul style="list-style-type: none"> <li>Foam Extrusion</li> <li>Foam Injection Molding</li> </ul>                                                        | <ul style="list-style-type: none"> <li>Injection Molding</li> </ul>                                                                      |

| Physical                                  | Typical Value (English) | Typical Value (SI)      | Test Based On     |
|-------------------------------------------|-------------------------|-------------------------|-------------------|
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 1.9 g/10 min            | 1.9 g/10 min            | ASTM D1238        |
| Density                                   | 0.900 g/cm <sup>3</sup> | 0.900 g/cm <sup>3</sup> | ExxonMobil Method |

| Mechanical                                                | Typical Value (English) | Typical Value (SI) | Test Based On     |
|-----------------------------------------------------------|-------------------------|--------------------|-------------------|
| Tensile Strength at Yield<br>2.0 in/min (51 mm/min)       | 5710 psi                | 39.4 MPa           | ASTM D638         |
| Elongation at Yield (2.0 in/min (51 mm/min))              | 5.2 %                   | 5.2 %              | ASTM D638         |
| Flexural Modulus - 1% Secant<br>0.051 in/min (1.3 mm/min) | 296000 psi              | 2040 MPa           | ASTM D790A        |
| 0.51 in/min (13 mm/min)                                   | 340000 psi              | 2340 MPa           | ASTM D790B        |
| Melt Strength (374°F (190°C))                             | 0.402 N                 | 0.402 N            | ExxonMobil Method |

| Impact                            | Typical Value (English) | Typical Value (SI) | Test Based On |
|-----------------------------------|-------------------------|--------------------|---------------|
| Notched Izod Impact (73°F (23°C)) | 0.88 ft-lb/in           | 47 J/m             | ASTM D256A    |

| Thermal                                                           | Typical Value (English) | Typical Value (SI) | Test Based On     |
|-------------------------------------------------------------------|-------------------------|--------------------|-------------------|
| Peak Melting Temperature                                          | 329 °F                  | 165 °C             | ExxonMobil Method |
| Deflection Temperature Under Load (DTUL)<br>at 66psi - Unannealed | 253 °F                  | 123 °C             | ASTM D648         |

### Legal Statement

Contact your ExxonMobil Chemical Customer Service Representative for potential food contact application compliance (e.g. FDA, EU, HPFB).

This product, including the product name, shall not be used or tested in any medical application without the prior written acknowledgement of ExxonMobil Chemical as to the intended use. For detailed Product Stewardship information, please contact Customer Service.

### Notes

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

<sup>1</sup> Product may not be available in one or more countries in the identified Availability regions. Please contact your Sales Representative for complete Country Availability.