

# Achieve™ Advanced PP8285E1

## Polypropylene Impact Copolymer

### Product Description

A high crystallinity, high impact copolymer resin designed for injection molded applications requiring excellent processing attributes.

### General

Availability <sup>1</sup>	<ul style="list-style-type: none"> <li>Africa &amp; Middle East</li> <li>Asia Pacific</li> </ul>	<ul style="list-style-type: none"> <li>Europe</li> <li>Latin America</li> </ul>	<ul style="list-style-type: none"> <li>North America</li> </ul>
Features	<ul style="list-style-type: none"> <li>Balanced Stiffness/Toughness</li> <li>Good Impact Resistance</li> </ul>	<ul style="list-style-type: none"> <li>Good Processability</li> <li>Heat Aging Resistant</li> </ul>	<ul style="list-style-type: none"> <li>Nucleated</li> </ul>
Uses	<ul style="list-style-type: none"> <li>Appliance Components</li> </ul>	<ul style="list-style-type: none"> <li>Automotive Applications</li> </ul>	<ul style="list-style-type: none"> <li>Industrial Applications</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>Compounding</li> </ul>	<ul style="list-style-type: none"> <li>Injection Molding</li> </ul>	
Revision Date	<ul style="list-style-type: none"> <li>01/01/2017</li> </ul>		

Physical	Typical Value (English)	Typical Value (SI)	Test Based On
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	30 g/10 min	30 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 2.0 in/min (51 mm/min)	2940 psi	20.3 MPa	ASTM D638
Tensile Stress at Yield	2890 psi	19.9 MPa	ISO 527-2
Elongation at Yield	5.7 %	5.7 %	ASTM D638
Tensile Strain at Yield	5.0 %	5.0 %	ISO 527-2
Flexural Modulus - 1% Secant 0.051 in/min (1.3 mm/min)	144000 psi	993 MPa	ASTM D790A
0.51 in/min (13 mm/min)	164000 psi	1130 MPa	ASTM D790B
Flexural Modulus (0.079 in/min (2.0 mm/min))	148000 psi	1020 MPa	ISO 178

Impact	Typical Value (English)	Typical Value (SI)	Test Based On
Notched Izod Impact 0°F (-18°C)	1.7 ft-lb/in	89 J/m	ASTM D256A
73°F (23°C)	No Break	No Break	
Notched Izod Impact Strength -4°F (-20°C)	3.2 ft-lb/in <sup>2</sup>	6.8 kJ/m <sup>2</sup>	ISO 180/1A
73°F (23°C)	22 ft-lb/in <sup>2</sup>	46 kJ/m <sup>2</sup>	
Gardner Impact -20°F (-29°C), 0.125 in (3.18 mm), Geometry GC	292 in-lb	33.0 J	ASTM D5420

Thermal	Typical Value (English)	Typical Value (SI)	Test Based On
Heat Deflection Temperature (0.45 MPa)	181 °F	82.8 °C	ISO 75-2/B
Deflection Temperature Under Load (DTUL) at 66psi - Unannealed	198 °F	92.0 °C	ASTM D648

### Legal Statement

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.

This product is not intended for use in food contact application.

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### 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.

For additional technical, sales and order assistance: [www.exxonmobilchemical.com/ContactUs](http://www.exxonmobilchemical.com/ContactUs)

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