

Test Based On

**ASTM D1238** 

# Achieve™ Advanced PP8285E1

### Polypropylene Impact Copolymer

Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)

(0.079 in/min (2.0 mm/min))

#### **Product Description**

Physical

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

Typical Value (English)

30 g/10 min

General			
Availability <sup>1</sup>	<ul><li>Africa &amp; Middle East</li><li>Asia Pacific</li></ul>	<ul><li>Europe</li><li>Latin America</li></ul>	North America
Features	<ul><li>Balanced Stiffness/Toughness</li><li>Good Impact Resistance</li></ul>	<ul><li>Good Processability</li><li>Heat Aging Resistant</li></ul>	<ul> <li>Nucleated</li> </ul>
Uses	<ul> <li>Appliance Components</li> </ul>	<ul> <li>Automotive Applications</li> </ul>	<ul> <li>Industrial Applications</li> </ul>
Appearance	<ul> <li>Natural Color</li> </ul>		
Form(s)	<ul> <li>Pellets</li> </ul>		
Processing Method	<ul> <li>Compounding</li> </ul>	<ul> <li>Injection Molding</li> </ul>	
Revision Date	• 01/01/2017		

Typical Value (SI)

30 g/10 min

Density	0.900	g/cm³	0.900	g/cm³	ExxonMobil Method
Mechanical	Typical Value	(Fnalish)	Typical Value	(SI)	Test Based On
Tensile Strength at Yield	.,,p.:65. 76.66	(2.19.3.1)	.,,p.ea. va.ce	(3.)	ASTM D638
2.0 in/min (51 mm/min)	2940	psi	20.3	MPa	
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	148000	psi	1020	MPa	ISO 178

mpact	Typical Value	(English)	Typical Value	(SI)	Test Based On
Notched Izod Impact					ASTM D256A
0°F (-18°C)	1.7	ft·lb/in	89	J/m	
73°F (23°C)	No Break		No Break		
Notched Izod Impact Strength					ISO 180/1A
-4°F (-20°C)	3.2	ft·lb/in²	6.8	kJ/m²	
73°F (23°C)	22	ft·lb/in²	46	kJ/m²	
Gardner Impact					ASTM D5420
-20°F (-29°C), 0.125 in (3.18 mm), Geometry GC	292	in·lb	33.0	J	

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.

Effective Date: 01/01/2017 ExxonMobil Page: 1 of 2



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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

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