

## Achieve™ Advanced PP7985E1

# Polypropylene Impact Copolymer

### Product Description

Achieve™ Advanced PP7985E1 is a high crystallinity, low impact strength copolymer resin designed for compounding base or injection molding applications requiring high melt flow rate.

Availability <sup>1</sup>	Asia Pacific		• Europe		
Features	High Flow		High Stiffness     Nucleated		
Uses	<ul> <li>Automotive Applicat</li> </ul>				
Appearance	Natural Color				
Form(s)	Pellets				
Processing Method	Extrusion     Injection Molding				
Revision Date			injection wolding		
Revision Date	• 03/04/2022				
Physical	Typical Value	(English)	Typical Value	(SI)	Test Based On
Melt Mass-Flow Rate (MFR) (230°C/2.16 k	g) 65	g/10 min	65	g/10 min	ASTM D1238
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 <sup>2</sup>	4350	_	71	MPa	ASTM D638
Tensile Stress at Yield	4260	·		MPa	ISO 527-2
Elongation at Yield <sup>3</sup> (2.0 in/min (50 mm/min))	4.5	•	4.5		ASTM D638
Tensile Strain at Yield	4.2	%	4.2	%	ISO 527-2
Flexural Modulus - 1% Secant					
0.051 in/min (1.3 mm/min)	230000	psi	1590	MPa	ASTM D790A
0.51 in/min (13 mm/min)	259000	psi	1790	MPa	ASTM D790B
Flexural Modulus (0.079 in/min (2.0 mm/min))	233000	psi	1610	MPa	ISO 178
mpact	Typical Value	(Enalish)	Typical Value	(SI)	Test Based On
Notched Izod Impact	71	, ,	71	,	ASTM D256A
0°F (-18°C)	0.42	ft·lb/in	22	J/m	
32°F (0°C)	0.68	ft·lb/in	36	J/m	
73°F (23°C)	1.1	ft·lb/in	60	J/m	
Notched Izod Impact Strength					ISO 180/1A
-4°F (-20°C)		ft·lb/in²		kJ/m²	
32°F (0°C)		ft·lb/in²		kJ/m²	
73°F (23°C)	2.9	ft·lb/in²	6.1	kJ/m²	
Charpy Notched Impact Strength		6. 11. 7: 2		1.1/ 3	ISO 179/1eA
-4°F (-20°C)		ft·lb/in²		kJ/m <sup>2</sup>	
32°F (0°C)		ft·lb/in² ft·lb/in²		kJ/m² kJ/m²	
73°F (23°C)	3.5	וניוט/ווו־	7.4	KJ/III <sup>-</sup>	
Thermal	Typical Value	(English)	Typical Value	(SI)	Test Based On
Heat Deflection Temperature (1.80 MPa)	.,		,,		ExxonMobil
Flatwise	130	°F	54.7	°C	Method
Heat Deflection Temperature (0.45 MPa)					ExxonMobil
Flatwise	226		108		Method
Deflection Temperature Under Load (DTUL at 66psi - Unannealed			118		ExxonMobil Method
DTUL (66 psi) - Annealed	259	°F	126	°C	ExxonMobil Method

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Hardness	Typical Value (English)	Typical Value (SI)	Test Based On
Rockwell Hardness	102	102	ASTM D785

#### 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.

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

#### 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.
- <sup>2</sup> 2 in/min
- 3 2.0 in/min

#### For additional technical, sales and order assistance: www.exxonmobilchemical.com/ContactUs

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