

# Achieve™ 1605

## Polypropylene Homopolymer

### Product Description

A homopolymer resin based on Exxpol™ metallocene technology designed for medical, electronics and other applications requiring cleanliness. It provides lower, volatiles and extractables and better clarity than conventional homopolymers.

### General

Availability <sup>1</sup>	▪ North America		
Features	▪ Autoclave Sterilizable ▪ Ethylene Oxide Sterilizable	▪ Good Organoleptic Properties ▪ Low Emissions	▪ Low Extractables ▪ Steam Sterilizable
Uses	▪ Automotive Applications ▪ Industrial Applications	▪ Labware ▪ Medical Packaging	▪ Medical/Healthcare Applications
Appearance	▪ Natural Color		
Form(s)	▪ Pellets		
Processing Method	▪ Injection Molding		
Revision Date	▪ 11/01/2010		

Physical	Typical Value (English)	Typical Value (SI)	Test Based On
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	32 g/10 min	32 g/10 min	ASTM D1238
Density	0.9 g/cm <sup>3</sup>	0.9 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)	4740 psi	32.7 MPa	ASTM D638
Elongation at Yield (2.0 in/min (51 mm/min))	9.1 %	9.1 %	ASTM D638
Flexural Modulus - 1% Secant (0.051 in/min (1.3 mm/min))	197000 psi	1360 MPa	ASTM D790A

Impact	Typical Value (English)	Typical Value (SI)	Test Based On
Notched Izod Impact (73°F (23°C))	0.33 ft-lb/in	18 J/m	ASTM D256A

Thermal	Typical Value (English)	Typical Value (SI)	Test Based On
Peak Melting Temperature	300 °F	149 °C	ExxonMobil Method
Deflection Temperature Under Load (DTUL) at 66psi - Unannealed	198 °F	92.2 °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.

### 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.

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

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