ExxonMobil

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

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		

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/cm³	0.9	g/cm³	ExxonMobil Method

Mechanical	Typical Value (English)		Typical Value (SI)		Test Based On
Tensile Strength at Yield					ASTM D638
2.0 in/min (51 mm/min)	4740	psi	32.7	MPa	
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