

Product Datasheet



Achieve™ Advanced PP1605

Polypropylene Homopolymer

Product Description

Achieve™ Advanced PP1605 is a homopolymer resin based on Exxpol™ metallocene technology designed for electronics and other applications requiring cleanliness. It provides lower, volatiles and extractables and better clarity than conventional homopolymers.

General

Availability ¹	▪ North America
Features	▪ Good Organoleptic Properties ▪ Low Emissions ▪ Low Extractables
Uses	▪ Automotive Applications ▪ Industrial Applications ▪ Packaging
Appearance	▪ Natural Color
Form(s)	▪ Pellets
Processing Method	▪ Injection Molding
Revision Date	▪ 01/17/2023

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	0.900 g/cm ³	0.900 g/cm ³	ExxonMobil Method

Mechanical	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Strength at Yield 2.0 in/min (51 mm/min)	4830 psi	33.3 MPa	ASTM D638
Elongation at Yield (2.0 in/min (51 mm/min))	9.2 %	9.2 %	ASTM D638
Flexural Modulus - 1% Secant (0.051 in/min (1.3 mm/min))	196000 psi	1350 MPa	ASTM D790A

Impact	Typical Value (English)	Typical Value (SI)	Test Based On
Notched Izod Impact (73°F (23°C))	0.49 ft-lb/in	26 J/m	ASTM D256A

Thermal	Typical Value (English)	Typical Value (SI)	Test Based On
Peak Melting Temperature	302 °F	150 °C	ExxonMobil Method
Deflection Temperature Under Load (DTUL) at 66psi - Unannealed	200 °F	93.3 °C	ASTM D648

Legal Statement

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.

¹ 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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ExxonMobil**Achieve™ Advanced PP1605**
Polypropylene HomopolymerFor additional technical, sales and order assistance: www.exxonmobilchemical.com/ContactUs

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