ExxonMobil

Achieve™ Advanced PP6302E1

Polypropylene Homopolymer

Product Description

A high melt strength homopolymer with long chain branching that provides excellent processability in foamed applications.

General

Availability [1]	▪ Asia Pacific	▪ Europe	▪ North America
Features	▪ Foamable ▪ High Melt Strength ▪ High Stiffness	▪ Long Chain Branching ▪ Regrind and Blending Performance ▪ Strain Hardening	▪ Thermal and Acoustic Insulation
Uses	▪ Automotive Applications ▪ Cap Liners ▪ Composites ▪ Compounding	▪ Construction Applications ▪ Heavy Transportation ▪ Material Handling ▪ Packaging	▪ Recyclable Food Packaging ▪ Reusable Durable Packaging ▪ Rigid Packaging
Appearance	▪ Natural Color		
Form(s)	▪ Pellets		
Processing Method	▪ Extrusion ▪ Foam Blow Molding	▪ Foam Extrusion ▪ Foam Injection Molding	▪ Injection Molding
Revision Date	▪ 09/13/2019		

Physical	Typical Value (English)		Typical Value (SI)		Test Based On
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	1.9	g/10 min	1.9	g/10 min	ASTM D1238
Density	0.900	g/cm³	0.900	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)	5710	psi	39.4	MPa	
Elongation at Yield (2.0 in/min (51 mm/min))	5.2	%	5.2	%	ASTM D638
Flexural Modulus - 1% Secant					
0.051 in/min (1.3 mm/min)	296000	psi	2040	MPa	ASTM D790A
0.51 in/min (13 mm/min)	340000	psi	2340	MPa	ASTM D790B
Melt Strength (374°F (190°C))	40.2	cN	40.2	cN	ExxonMobil Method

Impact	Typical Value (English)		Typical Value (SI)		Test Based On
Notched Izod Impact (73°F (23°C))	0.88	ft·lb/in	47	J/m	ASTM D256A

Thermal	Typical Value (English)		Typical Value (SI)		Test Based On
Peak Melting Temperature	329	°F	165	°C	ExxonMobil Method
Deflection Temperature Under Load (DTUL) at 66psi - Unannealed	253	°F	123	°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. For detailed Product Stewardship information, please contact Customer Service.

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

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