Product Datasheet

ExxonMobil Signature Polymers

ExxonMobil™ PP1352E1

Polypropylene Homopolymer

Product Description

A medium melt flow rate homopolymer resin designed for appliance and other consumer products requiring long-term heat-aging resistance.

General

Availability [1]	▪ North America		
Features	▪ Detergent Resistant ▪ General Purpose ▪ Good Processability	▪ Heat Aging Resistant ▪ Heat Stabilized ▪ Medium Flow	▪ Thermal Aging Resistant
Uses	▪ Appliance Components	▪ Appliances	▪ Consumer Applications
Appearance	▪ Natural Color		
Form(s)	▪ Pellets		
Processing Method	▪ Compounding	▪ Extrusion	▪ Injection Molding
Revision Date	▪ 04/01/2018		

Physical	Typical Value (English)		Typical Value (SI)		Test Based On
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	5.5	g/10 min	5.5	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)	5240	psi	36.1	MPa	
Elongation at Yield (2.0 in/min (51 mm/min))	10	%	10	%	ASTM D638
Flexural Modulus - 1% Secant					
0.051 in/min (1.3 mm/min)	224000	psi	1550	MPa	ASTM D790A
0.51 in/min (13 mm/min)	255000	psi	1760	MPa	ASTM D790B

Impact	Typical Value (English)		Typical Value (SI)		Test Based On
Notched Izod Impact (73°F (23°C))	0.66	ft·lb/in	35	J/m	ASTM D256A
Unnotched Izod Impact (0°F (-18°C))	0.40	ft·lb/in	21	J/m	ASTM D256E

Thermal	Typical Value (English)		Typical Value (SI)		Test Based On
Deflection Temperature Under Load (DTUL) at 66psi - Unannealed	200	°F	93.6	°C	ExxonMobil Method
Deflection Temperature Under Load (DTUL) at 264psi - Unannealed	126	°F	52.0	°C	ExxonMobil Method

Hardness	Typical Value (English)		Typical Value (SI)		Test Based On
Rockwell Hardness	101		101		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.

[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.

Manufacturer website: https://www.exxonmobilchemical.com/en/products/polyethylene

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

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