Product Datasheet

ExxonMobil Signature Polymers

ExxonMobil™ PP5722E1

Polypropylene Homopolymer

Product Description

A medium flow homopolymer resin designed for mono-oriented products like stretched tapes and monofilament.

General

Availability [1]	▪ Asia Pacific	
Features	▪ Good Gauge Control ▪ Good Processability	▪ Low Water Carryover ▪ Medium Flow
Uses	▪ Fabrics ▪ Rope	▪ Tape ▪ Yarn
Appearance	▪ Natural Color	
Form(s)	▪ Pellets	
Processing Method	▪ Extrusion	
Revision Date	▪ 07/01/2019	

Physical	Typical Value (English)		Typical Value (SI)		Test Based On
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	4.0	g/10 min	4.0	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)	5190	psi	35.8	MPa	
Tensile Stress at Yield	4960	psi	34.2	MPa	ISO 527-2/50
Elongation at Yield (2.0 in/min (50 mm/min))	8.9	%	8.9	%	ASTM D638
Tensile Strain at Yield	9.2	%	9.2	%	ISO 527-2/50
Flexural Modulus - 1% Secant					
0.051 in/min (1.3 mm/min)	235000	psi	1620	MPa	ASTM D790A
0.51 in/min (13 mm/min)	270000	psi	1860	MPa	ASTM D790B
Flexural Modulus (0.079 in/min (2.0 mm/min))	234000	psi	1610	MPa	ISO 178

Impact	Typical Value (English)		Typical Value (SI)		Test Based On
Notched Izod Impact (73°F (23°C))	0.61	ft·lb/in	33	J/m	ASTM D256A
Notched Izod Impact Strength (73°F (23°C))	2.5	ft·lb/in²	5.3	kJ/m²	ISO 180/1A
Charpy Notched Impact Strength (73°F (23°C))	2.5	ft·lb/in²	5.2	kJ/m²	ISO 179/1eA

Thermal	Typical Value (English)		Typical Value (SI)		Test Based On
Heat Deflection Temperature (1.80 MPa)					ExxonMobil Method
Flatwise	126	°F	52.0	°C	
Heat Deflection Temperature (0.45 MPa)					ExxonMobil Method
Flatwise	197	°F	91.7	°C	
Deflection Temperature Under Load (DTUL) at 66psi - Unannealed	204	°F	95.6	°C	ExxonMobil Method

Hardness	Typical Value (English)	Typical Value (SI)	Test Based On
Rockwell Hardness	111	111	ASTM D785

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.

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

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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.

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

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