

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/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)	5190 psi	35.8 MPa	ASTM D638
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/in ²	5.3 kJ/m ²	ISO 180/1A
Charpy Notched Impact Strength (73°F (23°C))	2.5 ft-lb/in ²	5.2 kJ/m ²	ISO 179/1eA

Thermal	Typical Value (English)	Typical Value (SI)	Test Based On
Heat Deflection Temperature (1.80 MPa)	126 °F	52.0 °C	ISO 75-2/Af
Heat Deflection Temperature (0.45 MPa)	197 °F	91.7 °C	ISO 75-2/Bf
Deflection Temperature Under Load (DTUL) at 66psi - Unannealed	204 °F	95.6 °C	ASTM D648

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.

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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