

ExxonMobil™ PP5341E1

Polypropylene Homopolymer

Product Description

A low melt flow rate homopolymer resin that provides high melt strength and resistance to softening at elevated temperature.

General

Features	▪ Low Flow		
Uses	▪ Automotive Applications	▪ Industrial Applications	
Appearance	▪ Natural Color		
Form(s)	▪ Pellets		
Processing Method	▪ Blow Molding ▪ Compounding	▪ Injection Molding ▪ Sheet Extrusion	▪ Thermoforming

Physical	Typical Value (English)	Typical Value (SI)	Test Based On
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	0.83 g/10 min	0.83 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)	4860 psi	33.5 MPa	ASTM D638
Elongation at Yield (2.0 in/min (51 mm/min))	13 %	13 %	ASTM D638
Flexural Modulus - 1% Secant 0.051 in/min (1.3 mm/min)	206000 psi	1420 MPa	ASTM D790A
0.51 in/min (13 mm/min)	235000 psi	1620 MPa	ASTM D790B

Impact	Typical Value (English)	Typical Value (SI)	Test Based On
Notched Izod Impact 0°F (-18°C)	0.40 ft-lb/in	21 J/m	ASTM D256A
73°F (23°C)	0.95 ft-lb/in	51 J/m	

Thermal	Typical Value (English)	Typical Value (SI)	Test Based On
Deflection Temperature Under Load (DTUL) at 66psi - Unannealed	195 °F	90.5 °C	ASTM D648
Deflection Temperature Under Load (DTUL) at 264psi - Unannealed	124 °F	51.0 °C	ASTM D648

Hardness	Typical Value (English)	Typical Value (SI)	Test Based On
Rockwell Hardness	101	101	ASTM D785

