

ExxonMobil™ PP1105E1

Polypropylene Homopolymer

Product Description

A high melt flow rate homopolymer resin designed for general purpose injection molding.

General

Features	- Controlled Rheology - General Purpose	- Good Processability - High Flow	Narrow Molecular Weight Distribution
Uses	- Automotive Applications - Consumer Applications	- Fabrics - Fibers	- Nonwovens - Packaging
Appearance	Natural Color		
Form(s)	Pellets		
Processing Method	Compounding	Injection Blow Molding	

Physical	Typical Value (English)	Typical Value (SI)	Test Based On
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	35 g/10 min	35 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			ASTM D638
2.0 in/min (51 mm/min)	5020 psi	34.6 MPa	
Elongation at Yield (2.0 in/min (51 mm/min))	9.9 %	9.9 %	ASTM D638
Flexural Modulus - 1% Secant			
0.051 in/min (1.3 mm/min)	205000 psi	1410 MPa	ASTM D790A
0.51 in/min (13 mm/min)	240000 psi	1650 MPa	ASTM D790B

Impact	Typical Value (English)	Typical Value (SI)	Test Based On
Notched Izod Impact (73°F (23°C))	0.49 ft·lb/in	26 J/m	ASTM D256A

Thermal	Typical Value (English)	Typical Value (SI)	Test Based On
Deflection Temperature Under Load (DTUL) at 66psi - Unannealed	202 °F	94.5 °C	ASTM D648

