ExxonMobil™ PP4052E1

Polypropylene Homopolymer

Product Description

An easy-processing, high crystallinity, polypropylene homopolymer resin designed primarily for BOPP (biaxially oriented polypropylene) film applications.

General

Uses	▪ Oriented Film	▪ Packaging	▪ Tape	
Appearance	▪ Natural Color			
Form(s)	▪ Pellets			
Processing Method	▪ Film Extrusion			

Physical	Typical Value (English)		Typical Value (SI)		Test Based On
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	2.0	g/10 min	2.0	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)	5230	psi	36.0	MPa	
Elongation at Yield (2.0 in/min (51 mm/min))	8.3	%	8.3	%	ASTM D638
Flexural Modulus - 1% Secant					
0.051 in/min (1.3 mm/min)	248000	psi	1710	MPa	ASTM D790A
0.51 in/min (13 mm/min)	283000	psi	1950	MPa	ASTM D790B

Impact	Typical Value (English)		Typical Value (SI)		Test Based On
Notched Izod Impact (73°F (23°C))	0.80	ft·lb/in	43	J/m	ASTM D256A

Thermal	Typical Value (English)		Typical Value (SI)		Test Based On
Melting Temperature	325	°F	163	°C	ExxonMobil Method
Deflection Temperature Under Load (DTUL) at 66psi - Unannealed	207	°F	97.0	°C	ASTM D648