

ExxonMobil™ PP1352E1

Polypropylene Homopolymer

Product Description

A medium melt flow rate homopolymer resin designed for appliance and other consumer products requiring long-term heat-aging resistance.

General

Features	- Detergent Resistant - General Purpose - Good Processability	- Heat Aging Resistant - Heat Stabilized - Medium Flow	Thermal Aging Resistant
Uses	Appliance Components	Appliances	Consumer Applications
Appearance	Natural Color		
Form(s)	Pellets		
Processing Method	Compounding	Extrusion	Injection Molding

Physical	Typical Value (English)	Typical Value (SI)	Test Based On
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	5.5 g/10 min	5.5 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)	5240 psi	36.1 MPa	ASTM D638
Elongation at Yield (2.0 in/min (51 mm/min))	10 %	10 %	ASTM D638
Flexural Modulus - 1% Secant 0.051 in/min (1.3 mm/min)	224000 psi	1550 MPa	ASTM D790A
0.51 in/min (13 mm/min)	255000 psi	1760 MPa	ASTM D790B

Impact	Typical Value (English)	Typical Value (SI)	Test Based On
Notched Izod Impact (73°F (23°C))	0.66 ft-lb/in	35 J/m	ASTM D256A
Unnotched Izod Impact (0°F (-18°C))	0.40 ft-lb/in	21 J/m	ASTM D256E

Thermal	Typical Value (English)	Typical Value (SI)	Test Based On
Deflection Temperature Under Load (DTUL) at 66psi - Unannealed	200 °F	93.6 °C	ASTM D648
Deflection Temperature Under Load (DTUL) at 264psi - Unannealed	126 °F	52.0 °C	ASTM D648

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

