

# ExxonMobil™ PP7855E1

## Polypropylene Impact Copolymer

### Product Description

A high crystallinity, medium impact strength copolymer resin with high melt flow rate and good processing attributes. It is designed for injection-molded automotive interior applications and large appliance parts.

### General

Features	<ul style="list-style-type: none"> <li>Balanced Stiffness/Toughness</li> <li>Good Stiffness</li> </ul>	<ul style="list-style-type: none"> <li>High Impact Resistance</li> <li>Impact Modified</li> </ul>	<ul style="list-style-type: none"> <li>Nucleated</li> <li>Slip</li> </ul>
Uses	<ul style="list-style-type: none"> <li>Appliances</li> <li>Automotive Exterior Parts</li> </ul>	<ul style="list-style-type: none"> <li>Automotive Interior Parts</li> <li>Consumer Applications</li> </ul>	
Appearance	<ul style="list-style-type: none"> <li>Natural Color</li> </ul>		
Form(s)	<ul style="list-style-type: none"> <li>Pellets</li> </ul>		
Processing Method	<ul style="list-style-type: none"> <li>Injection Molding</li> </ul>		

Physical	Typical Value (English)	Typical Value (SI)	Test Based On
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	30 g/10 min	30 g/10 min	ISO 1133
Density	0.900 g/cm <sup>3</sup>	0.900 g/cm <sup>3</sup>	ExxonMobil Method

Mechanical	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Strength at Yield 2.0 in/min (51 mm/min)	3250 psi	22.4 MPa	ASTM D638
Elongation at Yield (2.0 in/min (51 mm/min))	5.0 %	5.0 %	ASTM D638
Flexural Modulus - 1% Secant 0.051 in/min (1.3 mm/min)	160000 psi	1100 MPa	ASTM D790A
0.51 in/min (13 mm/min)	183000 psi	1260 MPa	ASTM D790B

Impact	Typical Value (English)	Typical Value (SI)	Test Based On
Notched Izod Impact (73°F (23°C))	3.2 ft-lb/in	170 J/m	ASTM D256A
Gardner Impact -20°F (-29°C), 0.125 in (3.18 mm), Geometry GC	235 in-lb	26.6 J	ASTM D5420

Thermal	Typical Value (English)	Typical Value (SI)	Test Based On
Deflection Temperature Under Load (DTUL) at 66psi - Unannealed	202 °F	94.7 °C	ASTM D648

