Product Datasheet

ExxonMobil Signature Polymers

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

Availability [1]	▪ Latin America	▪ North America	
Features	▪ Balanced Stiffness/Toughness ▪ Good Stiffness	▪ High Impact Resistance ▪ Impact Modified	▪ Nucleated ▪ Slip
Uses	▪ Appliances ▪ Automotive Exterior Parts	▪ Automotive Interior Parts ▪ Consumer Applications	
Appearance	▪ Natural Color		
Form(s)	▪ Pellets		
Processing Method	▪ Injection Molding		
Revision Date	▪ 04/01/2011		

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/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)	3250	psi	22.4	MPa	
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					ASTM D5420
-20°F (-29°C), 0.125 in (3.18 mm), Geometry GC	235	in·lb	26.6	J	

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

Legal Statement

This product is not intended for use in food contact application.

This product, including the product name, shall not be used or tested in any medical application without the prior written acknowledgement of ExxonMobil Chemical as to the intended use. For detailed Product Stewardship information, please contact Customer Service.

Notes

Typical properties: these are not to be construed as specifications.

[1] Product may not be available in one or more countries in the identified Availability regions. Please contact your Sales Representative for complete Country Availability.

Manufacturer website: https://www.exxonmobilchemical.com/en/products/polyethylene

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For additional technical, sales and order assistance: www.exxonmobilchemical.com/ContactUs

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