

ExxonMobil™ PP7965E1

Polypropylene Impact Copolymer

Product Description

ExxonMobil™ PP7965E1 is a high crystallinity, low impact strength copolymer resin designed for compounding base or injection molding applications requiring high melt flow rate.

General

Availability ¹	<ul style="list-style-type: none"> Europe North America
Features	<ul style="list-style-type: none"> High Flow High Stiffness Nucleated
Uses	<ul style="list-style-type: none"> Automotive Applications Compounding
Appearance	<ul style="list-style-type: none"> Natural Color
Form(s)	<ul style="list-style-type: none"> Pellets
Processing Method	<ul style="list-style-type: none"> Compounding Injection Molding
Revision Date	<ul style="list-style-type: none"> 08/08/2023

Physical	Typical Value (English)	Typical Value (SI)	Test Based On
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	115 g/10 min	115 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 Break			ASTM D638
2.0 in/min (50 mm/min)	4740 psi	32.7 MPa	
Tensile Stress at Break	4790 psi	33.0 MPa	ISO 527-2/50
Elongation at Break	3.5 %	3.5 %	ASTM D638
(2.0 in/min (50 mm/min))			
Tensile Strain at Break	3.7 %	3.7 %	ISO 527-2/50
Flexural Modulus - 1% Secant			
0.051 in/min (1.3 mm/min)	270000 psi	1860 MPa	ASTM D790A
0.51 in/min (13 mm/min)	303000 psi	2090 MPa	ASTM D790B
Flexural Modulus	263000 psi	1810 MPa	ISO 178
(0.079 in/min (2.0 mm/min))			

Impact	Typical Value (English)	Typical Value (SI)	Test Based On
Notched Izod Impact			ASTM D256A
0°F (-18°C)	0.40 ft-lb/in	21 J/m	
73°F (23°C)	0.65 ft-lb/in	35 J/m	
Notched Izod Impact Strength			ISO 180/1A
-4°F (-20°C)	0.93 ft-lb/in ²	2.0 kJ/m ²	
32°F (0°C)	1.1 ft-lb/in ²	2.2 kJ/m ²	
73°F (23°C)	2.2 ft-lb/in ²	4.6 kJ/m ²	
Charpy Notched Impact Strength			ISO 179/1eA
-4°F (-20°C)	0.67 ft-lb/in ²	1.4 kJ/m ²	
32°F (0°C)	0.76 ft-lb/in ²	1.6 kJ/m ²	
73°F (23°C)	2.2 ft-lb/in ²	4.6 kJ/m ²	

Thermal	Typical Value (English)	Typical Value (SI)	Test Based On
Heat Deflection Temperature (1.80 MPa)			ExxonMobil Method
Flatwise	138 °F	58.7 °C	
Heat Deflection Temperature (0.45 MPa)			ExxonMobil Method
Flatwise	233 °F	112 °C	
Deflection Temperature Under Load (DTUL)	253 °F	123 °C	ExxonMobil Method
at 66psi - Unannealed			
DTUL (66 psi) - Annealed	263 °F	128 °C	ExxonMobil Method

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Hardness	Typical Value (English)	Typical Value (SI)	Test Based On
Rockwell Hardness	108	108	ASTM D785

Legal Statement

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.

Contact your ExxonMobil Chemical Customer Service Representative for potential food contact application compliance (e.g. FDA, EU, HPFB).

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.

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

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