

ExxonMobil™ PP7585E1

Polypropylene Impact Copolymer

Product Description

ExxonMobil™ PP7585E1 is an ICP grade that is designed with low shrinkage rate, high stiffness and high flow ability to balance impact performance. It can be used to reduce the total shrinkage rate of auto compounds, and bring shrinkage flexibility to auto compounders if used with PP7585 in synergy with high shrinkage rate ICP.

General

Availability ¹	▪ Asia Pacific
Features	▪ Good Impact Resistance ▪ High Stiffness ▪ Low Shrinkage
Uses	▪ Automotive Applications
Appearance	▪ Natural Color
Form(s)	▪ Pellets
Processing Method	▪ Injection Molding
Revision Date	▪ 02/01/2021

Physical	Typical Value (English)	Typical Value (SI)	Test Based On
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	50 g/10 min	50 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)	3530 psi	24.3 MPa	ASTM D638
Tensile Stress at Yield	3540 psi	24.4 MPa	ISO 527-2/50
Elongation at Yield (2.0 in/min (51 mm/min))	5.6 %	5.6 %	ASTM D638
Tensile Strain at Yield	5.4 %	5.4 %	ISO 527-2/50
Flexural Modulus - 1% Secant 0.051 in/min (1.3 mm/min)	177000 psi	1220 MPa	ASTM D790A
0.51 in/min (13 mm/min)	200000 psi	1380 MPa	ASTM D790B
Flexural Modulus (0.079 in/min (2.0 mm/min))	190000 psi	1310 MPa	ISO 178

Impact	Typical Value (English)	Typical Value (SI)	Test Based On
Notched Izod Impact (73°F (23°C))	1.2 ft-lb/in	64 J/m	ASTM D256A
Notched Izod Impact Strength			ISO 180/1A
-40°F (-40°C)	1.2 ft-lb/in ²	2.6 kJ/m ²	
32°F (0°C)	1.4 ft-lb/in ²	2.9 kJ/m ²	
73°F (23°C)	3.0 ft-lb/in ²	6.2 kJ/m ²	
Gardner Impact -20°F (-29°C), 0.125 in (3.18 mm), Geometry GC	185 in-lb	20.9 J	ASTM D5420

Thermal	Typical Value (English)	Typical Value (SI)	Test Based On
Heat Deflection Temperature (1.80 MPa)	123 °F	50.3 °C	ISO 75-2/A
Heat Deflection Temperature (0.45 MPa)	193 °F	89.3 °C	ISO 75-2/Bf

Hardness	Typical Value (English)	Typical Value (SI)	Test Based On
Rockwell Hardness	90	90	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).

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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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