

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 | ExxonMobil Method |
| Heat Deflection Temperature (0.45 MPa) Flatwise | 193 °F | 89.3 °C | ExxonMobil Method |

| 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).

ExxonMobil™ PP7585E1
Polypropylene Impact Copolymer

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

©2023 ExxonMobil. ExxonMobil, the ExxonMobil logo, the interlocking "X" device and other product or service names used herein are trademarks of ExxonMobil, unless indicated otherwise. This document may not be distributed, displayed, copied or altered without ExxonMobil's prior written authorization. To the extent ExxonMobil authorizes distributing, displaying and/or copying of this document, the user may do so only if the document is unaltered and complete, including all of its headers, footers, disclaimers and other information. You may not copy this document to or reproduce it in whole or in part on a website. ExxonMobil does not guarantee the typical (or other) values. Any data included herein is based upon analysis of representative samples and not the actual product shipped. The information in this document relates only to the named product or materials when not in combination with any other product or materials. We based the information on data believed to be reliable on the date compiled, but we do not represent, warrant, or otherwise guarantee, expressly or impliedly, the merchantability, fitness for a particular purpose, freedom from patent infringement, suitability, accuracy, reliability, or completeness of this information or the products, materials or processes described. The user is solely responsible for all determinations regarding any use of material or product and any process in its territories of interest. We expressly disclaim liability for any loss, damage or injury directly or indirectly suffered or incurred as a result of or related to anyone using or relying on any of the information in this document. This document is not an endorsement of any non-ExxonMobil product or process, and we expressly disclaim any contrary implication. The terms "we," "our," "ExxonMobil Product Solutions" and "ExxonMobil" are each used for convenience, and may include any one or more of ExxonMobil Product Solutions Company, Exxon Mobil Corporation, or any affiliate either directly or indirectly stewarded.

exxonmobilchemical.com