
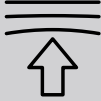





Exceed™ Exceed™ Flow Exceed™ Tough

Powering the road ahead: boost automotive performance with ExxonMobil Signature Polymers impact copolymer PP solutions for European region

 <p>High flow, high toughness</p>	 <p>High flow, high stiffness</p>	 <p>Superior aesthetic</p>
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Data and results presented herein apply specifically to the noted application under this factsheet. Your results may differ depending on factors such as operating conditions, equipment and materials used.

Material trends in the automotive industry are evolving rapidly, with growing demand for superior mechanical performance, lightweight solutions, and aesthetic appeal. ExxonMobil can help customers meet these evolving needs through our deep expertise and a portfolio of innovative polymer solutions.

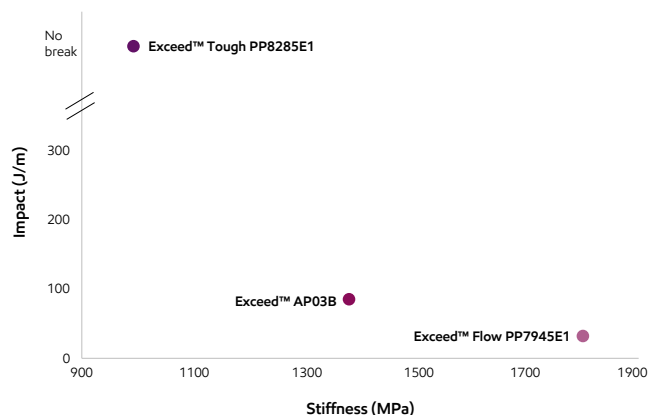
Whether you're optimizing for durability, reducing vehicle weight, or enhancing design flexibility, our portfolio of impact copolymer polypropylene (ICP) is engineered to support innovation and performance across a wide range of automotive applications.

EU portfolio of ICP grades: typical values

Grades	MFR	Flexural Modulus 1% secant		Notched Izod impact		Heat deflection temperature	
	(230°C/2.16kg) (g/10min) ASTM D1238	(MPa) at 1.3 mm/min ASTM D790A	(MPa) at 2.0 mm/min ISO 178	(J/m) at 23°C ASTM D256A	(kJ/m2) at 23°C ISO 180/1A	(°C) at 66 psi Unannealed ASTM D648	(°C) at 0.45 MPa ISO 75-2/Bf
Exceed™ AP03B	30	1380	1380	85	10	106	95
Exceed™ Tough PP8285E1	30	993	1020	No break	46	92.0	82.8
Exceed™ Flow PP7945E1	115	1800	1810	32	4.5	123	113
Exceed™ Flow PP965E1*	115	1860	1810	35	4.6	123	112

*Available with advanced recycle credits only

Our product portfolio is thoughtfully designed to address a wide range of automotive performance requirements — such as stiffness and impact — by aligning with customers' specific application needs.

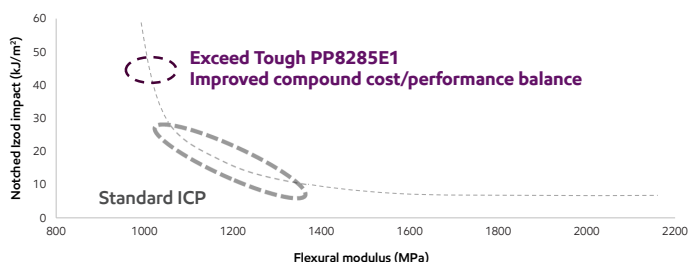


Impact = Notched Izod Impact (23°C), test based on ASTM D256A
Stiffness = Flexural Modulus – 1% Secant (1.3 mm/min), test based on ASTM D790A

Exceed™ Tough PP8285E1 provides step out toughness and flow

Compared to standard ICP, Exceed Tough PP8285E1 demonstrates improved balance of compound cost and performance. It offers 35% higher impact and 20% improved toughness.

Graph 1: Exceed Tough PP8285E1 neat resin comparison

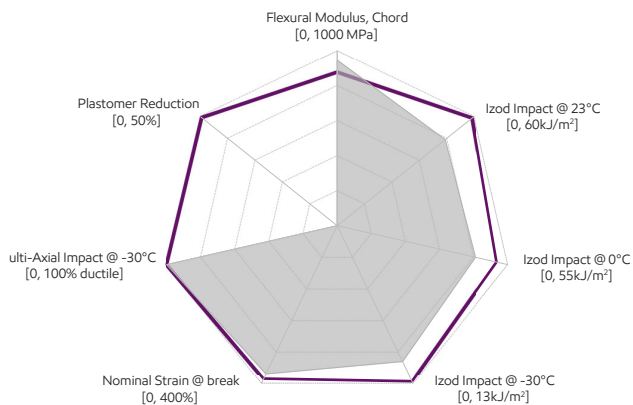


Exceed™ Tough PP8285E1 typical properties

Test item	Typical value	Test method based on
Melt Flow Rate (MFR) @230°C/2.16kg	30g/10min	ASTM D1238
Flexural modulus @2mm/min	1020 MPa	ISO 178
Notched Izod impact strength @ 23°C	46 kJ/m²	ISO 180/1A

Exceed Tough PP8285E1 shows superior capabilities in a range of performance areas. Exceed Tough PP8285E1 compound formulation uses 10% plastomer vs 20% plastomer in a standard compound formulation, enabling to reduce 50% plastomer not only to simply formulations but also provide significant cost saving opportunities.

Graph 2: Exceed Tough PP8285E1 based compound comparison

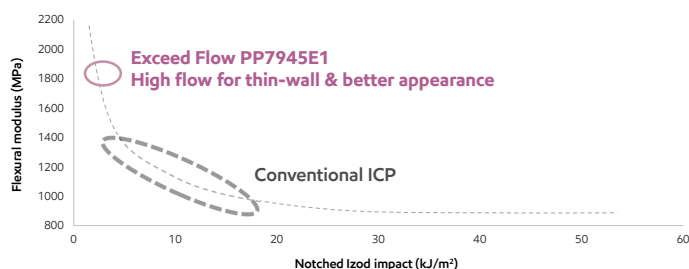


	Exceed Tough PP8285E1	Reference ICP
ICP	90%	80%
Plastomer	10%	20%

Exceed™ Flow PP7945E1 provides outstanding stiffness and flow

Exceed Flow PP7945E1 is ideal for thin-walled parts production due to its high melt flow rate (MFR) and can help reduce wall thickness to achieve light weight for automotive.

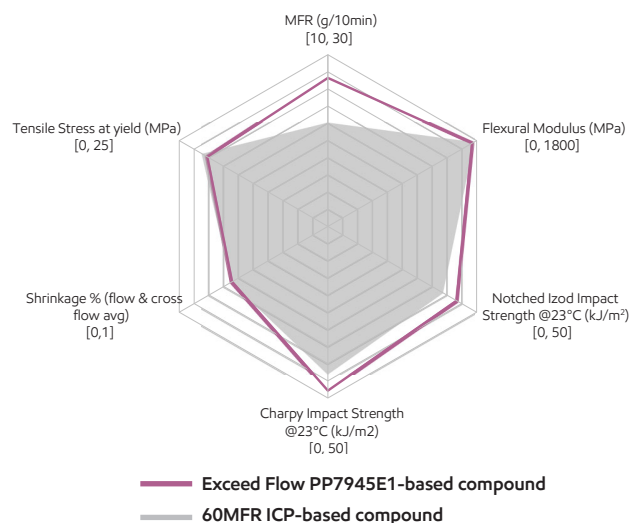
Graph 3: Exceed Flow PP7945E1 neat resin comparison



Exceed Flow PP7945E1 typical properties

Test item	Typical value	Test method based on
Melt Flow Rate (MFR) @230°C/2.16kg	115 g/10min	ASTM D1238
Flexural modulus @2mm/min	1820 MPa	ISO 178
Notched Izod impact strength @ 23°C	5.1 kJ/m²	ISO 180/1A

Graph 4: Exceed Flow PP7945E1 based compound comparison



For more information about our polypropylene gradeslate, visit: exxonmobilchemical.com/pp

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Signature Polymers

Bring your impossible



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