

ExxonMobil™ PP7905E1

Polypropylene Impact Copolymer

Product Description

A high crystallinity, low impact strength copolymer resin designed for compounding base or injection molding applications requiring very high melt

General					
Availability ¹	Latin America		 North America 		
	High Flow		 High Stiffness 	 Nucleated 	
Uses	Automotive Applicat	ions	 Compounding 		
	Natural Color				
	Pellets				
	Injection Molding				
	12/01/2017				
REVISION Date	12/01/201/				
Physical	Typical Value	(English)	Typical Value	(SI)	Test Based On
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg	, , , , , , , , , , , , , , , , , , ,	g/10 min	7.1	g/10 min	ASTM D1238
Density		g/cm ³		g/cm³	ExxonMobil Method
Mechanical	Typical Value	(English)	Typical Value	(SI)	Test Based On
Tensile Strength at Break	4870			MPa	ASTM D638
Tensile Stress at Break	4640	•		MPa	ISO 527-2/50
Elongation at Break	3.8		3.8		ASTM D638
Tensile Strain at Break	4.3		4.3		ISO 527-2/50
Flexural Modulus - 1% Secant	7.5	,0	4.5	,,	150 527 2/30
0.051 in/min (1.3 mm/min)	272000	psi	1880	MPa	ASTM D790A
0.51 in/min (13 mm/min)	307000	psi	2120		ASTM D790B
Flexural Modulus (0.079 in/min (2.0 mm/min))	264000	<u>'</u>	1820		ISO 178
	T . 1771	(F. 1: 1.)	T : 1771	(61)	T . D . LO
Impact	Typical Value	(English)	Typical Value	(SI)	Test Based On
Notched Izod Impact	0.45	6.11.7:-	24	17	ASTM D256A
0°F (-18°C) 73°F (23°C)		ft·lb/in ft·lb/in		J/m J/m	
Notched Izod Impact Strength	0.00	11.10/111	33	J/111	ISO 180/1A
-40°F (-40°C)	1 1	ft·lb/in²	2.4	kJ/m²	ISO 160/ IA
-4°F (-20°C)		ft·lb/in²		kJ/m²	
73°F (23°C)		ft·lb/in²		kJ/m²	
Charpy Notched Impact Strength	ــــــــــــــــــــــــــــــــــــــ	10 10/111	147	13,111	ISO 179/1eA
-22°F (-30°C)	0.67	ft·lb/in²	14	kJ/m²	150 1777 1671
-4°F (-20°C)		ft·lb/in²		kJ/m²	
32°F (0°C)		ft·lb/in²		kJ/m²	
73°F (23°C)		ft·lb/in²		kJ/m²	
Gardner Impact					ASTM D5420
-20°F (-29°C), 0.125 in (3.18 mm), Geometry GC	< 8.00	in·lb	< 0.904	J	
Thermal	Typical Value	(English)	Typical Value	(SI)	Test Based On
Heat Deflection Temperature (1.80 MPa)	139		59.4		ISO 75-2/Af
Heat Deflection Temperature (0.45 MPa)	243		117		ISO 75-2/Bf
Deflection Temperature Under Load (DTUL) at 66psi - Unannealed	256		125		ASTM D648
DTUL (66 psi) - Annealed	264	°F	129	°C	ASTM D648
				(=)	
Hardness	Typical Value	(English)	Typical Value	(SI)	Test Based On
Rockwell Hardness	110		110		ASTM D785

Effective Date: 12/01/2017 ExxonMobil Page: 1 of 2



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Additional Information

ASTM D638 & ISO 527-2/50: No Yield

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.q. 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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