

ExxonMobil™ PP8864E1

Polypropylene Impact Copolymer

Product Description

ExxonMobil™ PP8864E1 is a medium flow very high impact copolymer resin specifically designed for injection molding applications requiring good processing characteristics.

General					
	 Asia Pacific 				
, wendering	 Balanced Stiffness/T 	oughness	Medium Flow		
	 High Impact Resistar 		Nucleated		
Uses	 Automotive Applicat 	ions	 Industrial Applications 		
Appearance	 Natural Color 				
Form(s)	 Pellets 				
Processing Method	 Compounding 		 Injection Molding 		
-	• 01/24/2024		, ,		
Physical	Typical Value	(English)	Typical Value	(SI)	Test Based On
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg	g) 14	g/10 min		g/10 min	ASTM D1238
Density	0.900	g/cm³	0.900	g/cm³	ExxonMobil Method
Mechanical	Typical Value	(English)	Typical Value	(SI)	Test Based On
Tensile Strength at Yield	Typical value	(Liigiisii)	Typical Value	(31)	ASTM D638
2.0 in/min (51 mm/min)	2970	nsi	20.5	MPa	7 G TWI D030
Tensile Stress at Yield	2930	<u> </u>		MPa	ISO 527-2
Elongation at Yield	5.5		5.5		ASTM D638
Tensile Strain at Yield	5.4		5.4		ISO 527-2
Flexural Modulus - 1% Secant				,,,	.00 027 2
0.051 in/min (1.3 mm/min)	153000	psi	1050	MPa	ASTM D790A
0.51 in/min (13 mm/min)	174000			MPa	ASTM D790B
Flexural Modulus (0.079 in/min (2.0 mm/min))	161000	psi	1110	MPa	ISO 178
		(= 1:1)		(=)	
Impact	Typical Value	(English)	Typical Value	(SI)	Test Based On
Notched Izod Impact	1.3	6.11.7	/0	17	ACTN 4 DOE / A
-20°F (-29°C)		ft·lb/in		J/m	ASTM D256A
0°F (-18°C) ²		ft·lb/in		J/m	ASTM D256
32°F (0°C)		ft·lb/in ft·lb/in		J/m J/m	ASTM D256A
73°F (23°C) ²	14	Tt·ID/III	740	J/III	ASTM D256
Notched Izod Impact Strength	2.4	6 II /: 2		1.1/ 2	ISO 180
-22°F (-30°C)		ft·lb/in²		kJ/m ²	
-4°F (-20°C)		ft·lb/in² ft·lb/in²		kJ/m² kJ/m²	
32°F (0°C) 73°F (23°C)		π·ιb/in² ft·lb/in²		kJ/m²	
Charpy Notched Impact Strength	24	וניוט/ווו־	31	NJ/III	ISO 179/1eA
-4°F (-20°C)	2 5	ft·lb/in²	71	kJ/m²	130 177/TEA
32°F (0°C)		ft·lb/in²		kJ/m²	
73°F (23°C)		ft·lb/in²		kJ/m ²	
Thermal	Typical Value	_	Typical Value		Test Based On
Heat Deflection Temperature (1.80 MPa)	119		48.4		ISO 75-2/A
Heat Deflection Temperature (0.45 MPa)	182	°F	83.2	°C	ISO 75-2/B
Hardness	Typical Value	(English)	Typical Value	(SI)	Test Based On
Rockwell Hardness	64	(=9)	64	(2.)	ASTM D785
	01				

Effective Date: 01/24/2024 ExxonMobil Page: 1 of 2



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Legal Statement

This product, including the product name, shall not be used or tested in any medical application without 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.
- ² Notch A

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

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