Ex_xonMobil

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					
Availability ¹	 Asia Pacific 				
Features	Balanced Stiffness/ToughnessHigh Impact ResistanceNucleated				
Uses	 Automotive Applicat 	ions	 Industrial Applications 		
Appearance	 Natural Color 				
Form(s)	 Pellets 				
Processing Method	Compounding		 Injection Molding 		
Revision Date	• 01/24/2024		, ,		
Physical	Typical Value		Typical Value		Test Based On
Melt Mass-Flow Rate (MFR) (230°C/2.16 k		g/10 min		g/10 min	ASTM D1238
Density	0.900	g/cm³	0.900	g/cm ³	ExxonMobil Method
Mechanical	Typical Value	(Enalish)	Typical Value	(SI)	Test Based On
Tensile Strength at Yield	/		.,		ASTM D638
2.0 in/min (51 mm/min)	2970	psi	20.5	MPa	
Tensile Stress at Yield	2930		20.2	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					
0.051 in/min (1.3 mm/min)	153000	psi	1050	MPa	ASTM D790A
0.51 in/min (13 mm/min)	174000	psi	1200	MPa	ASTM D790B
Flexural Modulus (0.079 in/min (2.0 mm/min))	161000	psi	1110	MPa	ISO 178
Impact	Typical Value	(English)	Typical Value	(SI)	Test Based On
Notched Izod Impact	ijpical talaa	(2.19.01.)		(0.)	1000 20000 011
-20°F (-29°C)	1.3	ft·lb/in	68	J/m	ASTM D256A
0°F (-18°C) ²		ft·lb/in		J/m	ASTM D256
32°F (0°C)		ft·lb/in		J/m	ASTM D256A
73°F (23°C) ²		ft·lb/in		J/m	ASTM D256
Notched Izod Impact Strength					ISO 180
-22°F (-30°C)	31	ft·lb/in²	64	kJ/m²	100 100
-4°F (-20°C)		ft·lb/in²		kJ/m ²	
32°F (0°C)		ft·lb/in²		kJ/m ²	
73°F (23°C)		ft·lb/in²		kJ/m ²	
Charpy Notched Impact Strength					ISO 179/1eA
-4°F (-20°C)	3.5	ft·lb/in²	7.4	kJ/m²	-
32°F (0°C)		ft·lb/in²		kJ/m²	
73°F (23°C)	29	ft·lb/in²	62	kJ/m²	
Thermal	Typical Value	(English)	Typical Value	(51)	Test Based On
Heat Deflection Temperature (1.80 MPa)	119	-	48.4		ISO 75-2/A
Heat Deflection Temperature (1.80 MPa)	119		83.2		ISO 75-2/A
near Denection rempetature (0.45 MPa)	102	I	05.2	L.	130 / 3-2/0
Hardness	Typical Value	(English)	Typical Value	(SI)	Test Based On
Rockwell Hardness	64	. 5-1	64	. /	ASTM D785

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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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