

Achieve™ Advanced PP7945E1

Polypropylene Impact Copolymer

Product Description

Achieve™ Advanced PP7945E1 is a high crystallinity, low impact strength copolymer resin designed for compounding base or injection molding applications requiring very high melt flow rate.

General					
	Asia Pacific				
,	High Flow High Stiffness Nucleated				
	Automotive Applications Compounding				
	Natural Color		- compounding		
- (-)	Pellets				
•	Compounding		 Injection Molding 		
Revision Date	04/19/2022				
Physical	Typical Value	(English)	Typical Value	(SI)	Test Based On
Density		g/cm³	0.900	g/cm³	ExxonMobil Method
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg	115	g/10 min	115	g/10 min	ExxonMobil Method
Mechanical	Typical Value	(English)	Typical Value	(SI)	Test Based On
Tensile Stress at Yield	4670			MPa	ISO 527-2
Tensile Strength at Break ²	+070	۲۵۱	32.2	1111 0	ASTM D638
2.0 in/min (51 mm/min)	4390	psi	3U 3	MPa	, .5 1141 D050
Tensile Strain at Yield	4370		4.0		ISO 527-2
	5.1		5.1		ASTM D638
Elongation at Break ³ Flexural Modulus - 1% Secant	3.1	70	J. I	70	7.51141 0030
0.051 in/min (1.3 mm/min)	261000	osi	1800	MDa	ASTM D790A
0.51 in/min (1.3 mm/min)	291000			MPa	ASTM D770A
Flexural Modulus (0.079 in/min (2.0 mm/min))	263000	-		MPa	ISO 178
	T : 1)/1	/E !: I \	T : 1771	(CI)	F . D . 10
mpact	Typical Value	(English)	Typical Value	(SI)	Test Based On
Notched Izod Impact	0.41	G- 11- /:-	22	1/	ASTM D256A
0°F (-18°C)		ft·lb/in		J/m	
73°F (23°C)	0.60	ft·lb/in	32	J/m	ICO 100/1A
Notched Izod Impact Strength	0.05	£ 15 /:-2	2.0	l. 1/m2	ISO 180/1A
0°F (-18°C)		ft·lb/in² ft·lb/in²		kJ/m² kJ/m²	
32°F (0°C) 73°F (23°C)		π·Ib/In² ft·lb/in²		kJ/m²	
Charpy Notched Impact Strength	2.1	וניוט/ווו־	4.5	KJ/III ⁻	ISO 179/1eA
-4°F (-20°C)	Λ 01	ft·lb/in²	17	kJ/m²	130 179/18A
32°F (0°C)		ft·lb/in²		kJ/m ²	
73°F (23°C)		ft·lb/in²		kJ/m ²	
Theorem	Tim:11/-1	(Faction)	TooloolA/ I	(CI)	Took Da O
Thermal Heat Deflection Temperature (1.90 MPs)	Typical Value	(English)	Typical Value	(31)	Test Based On
Heat Deflection Temperature (1.80 MPa) Flatwise	135	°F	57.0	°C	ExxonMobil Method
Heat Deflection Temperature (0.45 MPa)					ExxonMobil
Flatwise	235	°F	113	°C	Method
Deflection Temperature Under Load (DTUL) at 66psi - Unannealed	253	°F	123	°C	ExxonMobil Method
DTUL (66 psi) - Annealed	262	°F	128	°C	ExxonMobil Method

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Hardness	Typical Value (English)	Typical Value (SI)	Test Based On
Rockwell Hardness	109	109	ASTM D785

Additional Information

Data Traceability: 202011.0470-02 (BCT-312146, BCT-336349) and 202108.0128-02 (BCT-340529)

Legal Statement

Contact your ExxonMobil Chemical Customer Service Representative for potential food contact application compliance (e.g. FDA, EU, HPFB).

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.

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 2.0 in/min
- ³ 2.0 in/min (51 mm/min)

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

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