ExxonMobil

Achieve™ Advanced PP7925E1

Polypropylene Impact Copolymer

Product Description

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

General

Availability [1]	▪ Asia Pacific	▪ Latin America	▪ North America
Features	▪ High Flow	▪ High Stiffness	▪ Nucleated
Uses	▪ Automotive Applications	▪ Compounding	
Appearance	▪ Natural Color		
Form(s)	▪ Pellets		
Processing Method	▪ Compounding	▪ Injection Molding	
Revision Date	▪ 02/18/2020		

Physical	Typical Value (English)		Typical Value (SI)		Test Based On
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	135	g/10 min	135	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 Break					ASTM D638
2.0 in/min (50 mm/min)	4660	psi	32.1	MPa	
Tensile Stress at Break	4580	psi	31.6	MPa	ISO 527-2/50
Elongation at Break (2.0 in/min (50 mm/min))	3.3	%	3.3	%	ASTM D638
Tensile Strain at Break	3.2	%	3.2	%	ISO 527-2/50
Flexural Modulus - 1% Secant					
0.051 in/min (1.3 mm/min)	258000	psi	1780	MPa	ASTM D790A
0.51 in/min (13 mm/min)	290000	psi	2000	MPa	ASTM D790B
Flexural Modulus (0.079 in/min (2.0 mm/min))	274000	psi	1890	MPa	ISO 178

Impact	Typical Value (English)		Typical Value (SI)		Test Based On
Notched Izod Impact					ASTM D256A
0°F (-18°C)	0.29	ft·lb/in	15	J/m	
73°F (23°C)	0.54	ft·lb/in	29	J/m	
Notched Izod Impact Strength					ISO 180/1A
-4°F (-20°C)	0.91	ft·lb/in²	1.9	kJ/m²	
32°F (0°C)	1.1	ft·lb/in²	2.4	kJ/m²	
73°F (23°C)	2.2	ft·lb/in²	4.6	kJ/m²	
Charpy Notched Impact Strength					ISO 179/1eA
-4°F (-20°C)	0.52	ft·lb/in²	1.1	kJ/m²	
32°F (0°C)	0.86	ft·lb/in²	1.8	kJ/m²	
73°F (23°C)	2.0	ft·lb/in²	4.2	kJ/m²	

Thermal	Typical Value (English)		Typical Value (SI)		Test Based On
Heat Deflection Temperature (1.80 MPa)					ExxonMobil Method
Flatwise	138	°F	58.8	°C	
Heat Deflection Temperature (0.45 MPa)					ExxonMobil Method
Flatwise	245	°F	118	°C	
Deflection Temperature Under Load (DTUL) at 66psi - Unannealed	255	°F	124	°C	ExxonMobil Method
DTUL (66 psi) - Annealed	266	°F	130	°C	ExxonMobil Method

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Hardness	Typical Value (English)	Typical Value (SI)	Test Based On
Rockwell Hardness	112	112	ExxonMobil Method

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.

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

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