

# Achieve™ Advanced PP7123KNE1

## Polypropylene Impact Copolymer

### Product Description

A medium impact copolymer resin designed for appliance applications requiring high gloss and good stiffness.

General					
Availability <sup>1</sup>	Asia Pacific				
	<ul><li>Good Processability</li><li>High Gloss</li></ul>		<ul><li>High Stiffness</li><li>Medium Flow</li></ul>	<ul><li>Medium Impact Resistance</li><li>Nucleated</li></ul>	
Uses •	Appliance Components		<ul> <li>Appliances</li> </ul>	Consumer Applications	
Appearance •	Natural Color				
Form(s)	Pellets				
Processing Method	Injection Molding				
-	09/29/2016				
		<i>(</i> = 1: 1)		(=)	
Physical	Typical Value		Typical Value		Test Based On
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg		g/10 min		g/10 min	ASTM D1238
Density	0.900	g/cm³	0.900	) g/cm³	ExxonMobil Method
Mechanical	Typical Value	(Enalish)	Typical Value	e (SI)	Test Based On
Tensile Strength at Yield	71 3.00	. 5 - /	/	, ,	ASTM D638
2.0 in/min (51 mm/min)	4740	psi	32.7	<sup>7</sup> MPa	
Tensile Stress at Yield (73°F (23°C))	4470	•		3 MPa	ISO 527-2/50
Elongation at Yield (2.0 in/min (51 mm/min)				1 %	ASTM D638
Tensile Strain at Yield	5.8			3 %	ISO 527-2/50
Flexural Modulus - 1% Secant					
0.051 in/min (1.3 mm/min)	228000	psi	1570	) MPa	ASTM D790A
0.51 in/min (13 mm/min)	260000	psi	1790	) MPa	ASTM D790B
Flexural Modulus (0.079 in/min (2.0 mm/min))	244000	psi	1680	) MPa	ISO 178
mpact	Typical Value	(English)	Typical Value	\ (CI)	Test Based On
Notched Izod Impact	Typical value	(English)	Typical value	(31)	ASTM D256A
0°F (-18°C)	0.50	ft·lb/in	2-	7 J/m	ASTIVI DZJOA
73°F (23°C)		ft·lb/in		5 J/m	
Notched Izod Impact Strength	1.0	11/10/111	0.	J J/111	ISO 180/1A
-22°F (-30°C)	1 2	ft·lb/in²	2 5	5 kJ/m²	150 100/ TA
-4°F (-20°C)		ft·lb/in²		7 kJ/m²	
32°F (0°C)		ft·lb/in²		8 kJ/m <sup>2</sup>	
73°F (23°C)		ft·lb/in²		kJ/m <sup>2</sup>	
Charpy Notched Impact Strength	3.3	1010/111	0.,	107111	ISO 179/1eA
-22°F (-30°C)	11	ft·lb/in²	24	↓ kJ/m²	130 1777 1670
-4°F (-20°C)		ft·lb/in²		5 kJ/m²	
32°F (0°C)		ft·lb/in²		7 kJ/m²	
73°F (23°C)		ft·lb/in²		3 kJ/m²	
- Thermal	Typical Value	(English)	Typical Value	(CI)	Test Based On
Heat Deflection Temperature (1.80 MPa)	129			) °C	ISO 75-2/A
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Heat Deflection Temperature (0.45 MPa)				2 °C	
Deflection Temperature Under Load (DTUL) at 66psi - Unannealed	241	°F		5 °C	ASTM D648
DTUL (66 psi) - Annealed	255	°F	124	1 °C	ASTM D648
Optical	Typical Value	(English)	Typical Value	e (SI)	Test Based On
Gloss (60°)	89		89		ASTM D523

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## Achieve<sup>™</sup> Advanced PP7123KNE1 Polypropylene Impact Copolymer

Hardness	Typical Value (English)	Typical Value (SI)	Test Based On
Rockwell Hardness	96	96	ASTM D785

#### 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.g. FDA, EU, HPFB).

#### Notes

Typical properties: these are not to be construed as specifications.

<sup>1</sup> 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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