

## ExxonMobil™ PP7684KNE1

## Polypropylene Impact Copolymer

### **Product Description**

A high crystallinity, high impact copolymer resin with medium melt flow rate and excellent processing attributes. It is designed to optimize cycle times by improving mold release of injection molded parts.

, wandonie,	Africa & Middle East		Latin America		
<u> </u>	Europe		North America		
	<ul> <li>Antistatic</li> <li>Balanced Stiffness/Toughness</li> <li>Appliances</li> <li>Consumer Applications</li> </ul>		<ul><li>Fast Molding Cycle</li><li>Good Mold Release</li></ul>	<ul><li>Medium Impact Resistance</li><li>Nucleated</li><li>Packaging</li><li>Tool/Tote Box</li></ul>	
			<ul><li>Crates</li><li>Industrial Applications</li></ul>		
Appearance •	Natural Color				
Form(s)	Pellets				
Processing Method	Compounding		<ul> <li>Injection Molding</li> </ul>		
-	10/01/2018		<u> </u>		
The History Dete	. 0, 0 1, 20 10				
Physical	Typical Value	(English)	Typical Value	(SI)	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/cm <sup>3</sup>	ExxonMobil Method
Mechanical	Typical Value	(Enalish)	Typical Value	(SI)	Test Based On
Tensile Strength at Yield	75.00. 10.00		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	(2.)	ASTM D638
2.0 in/min (51 mm/min)	3450	psi	23.8	MPa	330
Tensile Stress at Yield	3350		23.1	MPa	ISO 527-2/50
Elongation at Yield (2.0 in/min (51 mm/min))			4.5	%	ASTM D638
Tensile Strain at Yield	4.2	%	4.2	%	ISO 527-2/50
Flexural Modulus - 1% Secant					
0.051 in/min (1.3 mm/min)	185000	psi	1280	MPa	ASTM D790A
0.51 in/min (13 mm/min)		psi	1480	MPa	ASTM D790B
Flexural Modulus (0.079 in/min (2.0 mm/min))	185000	psi psi	1280	MPa	ISO 178
lar an at	T! \)/- \	/= -l:-l-\	T := ( == 1 \ /= 1 \ :=	(CI)	T+ D 1 O-
Impact (72%5 (22%5))	Typical Value	_	Typical Value		Test Based On
Notched Izod Impact (73°F (23°C))	3.0	ft·lb/in	160	J/m	ASTM D256A
Notched Izod Impact Strength	24	ft·lb/in²	7.2	kJ/m²	ISO 180/1A
-40°F (-40°C) -4°F (-20°C)		ft·lb/in²		kJ/m²	
73°F (23°C)		ft·lb/in²		kJ/m²	
Charpy Notched Impact Strength	0.0	10/111	14	NJ/111	ISO 179/1eA
-22°F (-30°C)	35	ft·lb/in²	73	kJ/m²	150 1777 TEA
-4°F (-20°C)		ft·lb/in²		kJ/m <sup>2</sup>	
32°F (0°C)		ft·lb/in²		kJ/m <sup>2</sup>	
73°F (23°C)		ft·lb/in²		kJ/m <sup>2</sup>	
Gardner Impact			<u>``</u>		ASTM D5420
-20°F (-29°C), 0.125 in (3.18 mm), Geometry GC	197	in·lb	22.3	J	
Thermal	Typical Value	(English)	Typical Value	(SI)	Test Based On
Heat Deflection Temperature (1.80 MPa)	122	_	50.1		ISO 75-2/A
Heat Deflection Temperature (0.45 MPa)	191		88.5		ISO 75-2/Bf
Deflection Temperature Under Load (DTUL) at 66psi - Unannealed	221		105		ASTM D648

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### 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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