

### 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.

General					
7 Wallability	Africa & Middle East		<ul> <li>Latin America</li> </ul>		
	Еигоре		<ul> <li>North America</li> </ul>		
	Antistatic		<ul> <li>Fast Molding Cycle</li> </ul>	<ul> <li>Mediu</li> </ul>	m Impact Resistance
	Balanced Stiffness/T	oughness	<ul> <li>Good Mold Release</li> </ul>	<ul> <li>Nuclea</li> </ul>	ated
	Appliances		<ul> <li>Crates</li> </ul>	<ul> <li>Packag</li> </ul>	
	<ul> <li>Consumer Applications</li> </ul>		<ul> <li>Industrial Applications</li> </ul>	ustrial Applications • Tool/Tote Box	
Appearance •	Natural Color				
Form(s)	Pellets				
Processing Method •	Compounding		<ul> <li>Injection Molding</li> </ul>		
Revision Date	10/01/2018				
Physical	Typical Value	(English)	Typical Value	(SI)	Test Based On
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	19	g/10 min	19	g/10 min	ASTM D1238
Density	0.900	g/cm³	0.900	g/cm³	ExxonMobil Method
Mechanical	Typical Value	(Fnalish)	Typical Value	(SI)	Test Based On
Tensile Strength at Yield	Typical value	(English)	Typical value	(31)	ASTM D638
2.0 in/min (51 mm/min)	3450	nsi	23.8	MPa	7.51111.0000
Tensile Stress at Yield	3350	•		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	1.2	70	1.2	70	130 327 2730
0.051 in/min (1.3 mm/min)	185000	psi	1280	MPa	ASTM D790A
0.51 in/min (13 mm/min)	214000	psi	1480		ASTM D790B
Flexural Modulus	185000		1280		ISO 178
(0.079 in/min (2.0 mm/min))	.03000	ρ3.	.200	0	.55 .75
mpact	Typical Value	(English)	Typical Value	(SI)	Test Based On
Notched Izod Impact (73°F (23°C))	3.0	ft·lb/in	160	J/m	ASTM D256A
Notched Izod Impact Strength					ISO 180/1A
-40°F (-40°C)		ft·lb/in²		kJ/m²	
-4°F (-20°C)		ft·lb/in²		kJ/m²	
73°F (23°C)	6.8	ft·lb/in²	14	kJ/m²	
Charpy Notched Impact Strength		6 11 6 3			ISO 179/1eA
-22°F (-30°C)		ft·lb/in²		kJ/m <sup>2</sup>	
-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)	6.5	ft·lb/in²	14	kJ/m²	
Gardner Impact	407	:= 11-	22.2		ASTM D5420
-20°F (-29°C), 0.125 in (3.18 mm), Geometry GC	19/	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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