

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		 Latin America 		
	Europe		 North America 		
	Antistatic		 Fast Molding Cycle 	 Mediu 	m Impact Resistance
	Balanced Stiffness/T	oughness	 Good Mold Release 	 Nuclea 	ated
	Appliances		 Crates 	 Packag 	
	 Consumer Applications 		 Industrial Applications 	ial Applications • Tool/Tote Box	
Appearance •	Natural Color				
Form(s)	Pellets				
Processing Method •	Compounding		 Injection Molding 		
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	7.51141.0000
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		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		MPa	ASTM D790B
Flexural Modulus	185000			MPa	ISO 178
(0.079 in/min (2.0 mm/min))	.03000	P3.	.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					ISO 179/1eA
-22°F (-30°C)		ft·lb/in²		kJ/m²	
-4°F (-20°C)		ft·lb/in²		kJ/m ²	
32°F (0°C)		ft·lb/in²		kJ/m ²	
73°F (23°C)	6.5	ft·lb/in²	14	kJ/m²	1071177
Gardner Impact	407	:- 11-	22.2		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

 Effective Date: 10/01/2018
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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.

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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