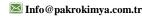
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Product Datasheet

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.

C 1							
General 1							
Availability ¹	• N	lorth America					
		Antistatic Balanced Stiffness/Toughness		Fast Molding CycleGood Mold Release		Medium Impact ResistanceNucleated	
Uses •		 Appliances 		• Crates	 Packa 	 Packaging 	
		Consumer Applications		 Industrial Applications Tool/Tote 		Tote Box	
Appearance	• N	latural Color					
Form(s)	• P	ellets					
Processing Method	• C	ompounding		Injection Molding			
Revision Date		0/01/2018		, ,			
Physical		Typical Value	(English)	Typical Value	(SI)	Test Based On	
Melt Mass-Flow Rate (MFR) (230°C/	/2.16 kg)		g/10 min	71	g/10 min	ASTM D1238	
Density			g/cm ³		g/cm³	ExxonMobil Method	
Mechanical Mechanical		Typical Value	(English)	Tueled Make	(CI)	Test Based On	
Tensile Strength at Yield		Typical Value	(English)	Typical Value	(31)	ASTM D638	
2.0 in/min (51 mm/min)		3450	nci	22.8	MPa	A311VI D030	
Tensile Stress at Yield		3350		23.1	MPa	ISO 527-2/50	
Elongation at Yield (2.0 in/min (51 m	am/min))	4.5	_	4.5	%	ASTM D638	
Tensile Strain at Yield (2.0 III/IIIIII (5 I III	1111/1111111))	4.5		4.5		ISO 527-2/50	
		4.2	70	4.2	70	150 527-2/50	
Flexural Modulus - 1% Secant 0.051 in/min (1.3 mm/min)		185000	nci	1280	MDa	ASTM D790A	
0.51 in/min (1.3 mm/min)		214000	psi psi	1480		ASTM D790B	
Flexural Modulus		185000		1280		ISO 178	
(0.079 in/min (2.0 mm/min))		183000	μsi	1200	IVIFA	130 176	
(2.2							
Impact		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)		3.4	ft·lb/in²	7.2	kJ/m ²		
-4°F (-20°C)		3.7	ft·lb/in²	7.7	kJ/m ²		
73°F (23°C)		6.8	ft·lb/in²	14	kJ/m ²		
Charpy Notched Impact Strength						ISO 179/1eA	
-22°F (-30°C)		3.5	ft·lb/in²	7.3	kJ/m²		
-4°F (-20°C)		3.6	ft·lb/in²	7.5	kJ/m²		
32°F (0°C)		4.3	ft·lb/in²	9.0	kJ/m²		
73°F (23°C)		6.5	ft·lb/in²	14	kJ/m²		
Gardner Impact -20°F (-29°C), 0.125 in (3.18 mm)).	197	in·lb	22.3	J	ASTM D5420	
Geometry GC	''	.,,		22.5	-		
Thermal		Typical Value	(English)	Typical Value	(SI)	Test Based On	
Heat Deflection Temperature (1.80 N		122	°F	50.1		ISO 75-2/A	
Heat Deflection Temperature (0.45 N Deflection Temperature Under Load		191	°F	88.5	°C	ISO 75-2/Bf	

Effective Date: 10/01/2018 Page: 1 of 2 ExxonMobil



ExxonMobil™ PP7684KNE1 Polypropylene Impact Copolymer

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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