

AchieveTM Advanced PP7123KNE1 Polypropylene Impact Copolymer

Product Description

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

Key Features

- 1. Good Processability
- High Gloss
- 3. High Stiffness
- 4. Medium Flow
- 5. Medium Impact Resistance
- 6. Nucleated

Availability ¹	Asia Pacific		
Uses	Appliance Components	 Appliances 	 Consumer Applications
Appearance	Natural Color		
- (-)	Pellets		
•	Injection Molding		
Revision Date	• 09/29/2016		
Physical	Typical Value (English)	Typical Value (SI)	Test Based On
Melt Mass-Flow Rate (MFR) (230 °C/2.16 kg)	11 g/10 min	11 g/10 min	ASTM D1238
Density	0.900 g/cm ³	0.900 g/cm ³	ExxonMobil Method
Mechanical	Typical Value (English)	Typical Value (SI)	Test Based On
	Typical value (English)	Typical Value (OI)	
Tensile Strength at Yield 2.0 in/min (51 mm/min)	4740 psi	32.7 MPa	ASTM D638
Tensile Stress at Yield (73 °F (23 °C))	4470 psi	30.8 MPa	ISO 527-2/50
Elongation at Yield	4470 psi	JU.O IVIF a	130 321-2/30
(2.0 in/min (51 mm/min))	6.4 %	6.4 %	ASTM D638
Tensile Strain at Yield	5.8 %	5.8 %	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
mnaat	Typical Value (English)	Typical Value (CI)	Test Based On
mpact	Typical Value (English)	Typical Value (SI)	
Notched Izod Impact	0.50 ft·lb/in	27 J/m	ASTM D256A
0 °F (-18 °C) 73 °F (23 °C)	1.6 ft-lb/in	27 J/III 85 J/m	
Notched Izod Impact Strength	1.0 10 10/111	00 0/111	ISO 180/1A
-22 °F (-30°C)	1.2 ft·lb/in ²	2.5 kJ/m ²	100 100/1/1
-4 °F (-20°C)	1.3 ft·lb/in ²	2.7 kJ/m ²	
32 °F (0°C)	1.8 ft·lb/in ²	3.8 kJ/m ²	
73 °F (23 °C)	3.3 ft·lb/in ²	6.9 kJ/m ²	
Charpy Notched Impact Strength			ISO 179/1eA
-22 °F (-30 °C)	1.1 ft·lb/in²	2.4 kJ/m ²	
-4 °F (-20 °C)	1.2 ft·lb/in²	2.5 kJ/m² 3.7 kJ/m²	
32 °F (0 °C) 73 °F (23 °C)	1.8 ft∙lb/in² 3.2 ft∙lb/in²	3.7 kJ/m² 6.8 kJ/m²	
73 F (23 C)	3.2 It·Ib/III	0.0 KJ/III	
Thermal	Typical Value (English)	Typical Value (SI)	Test Based On
Heat Deflection Temperature (1.80 MP	a) 129 °F	54.0 °C	ISO 75-2/A
Heat Deflection Temperature (0.45 MP	a) 216 °F	102 °C	ISO 75-2/Bf
Deflection Temperature Under Load (DTUL) at 66 psi - Unannealed	241 °F	116 °C	ASTM D648
DTUL @ 66 psi - Annealed	255 °F	124 °C	ASTM D648
Optical	Typical Value (English)	Typical Value (SI)	Test Based On
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Gardner Gloss (60°)	89	89	ASTM D523
Hardness	Typical Value (English)	Typical Value (SI)	Test Based On
Rockwell Hardness	96	96	ASTM D785

Notes

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

¹Product 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 please contact our sales representative

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