ExxonMobil

Achieve™ Advanced PP6282NE1

Polypropylene Homopolymer

Product Description

A high melt strength homopolymer resin that provides uniform wall distribution in thin wall packaging applications and excellent processing characteristics in extrusion and thermoforming processes. Achieve™ Advanced PP6282NE1 has a broad processing window and can be run at fast cycle times.

General

Features	▪ Excellent Processability ▪ High Melt Strength	▪ High Stiffness ▪ Homopolymer	▪ Nucleated
Uses	▪ Cups ▪ Food Containers	▪ Lids ▪ Packaging	▪ Rigid Packaging
Appearance	▪ Natural Color		
Form(s)	▪ Pellets		
Processing Method	▪ Extrusion	▪ Sheet Extrusion	▪ Thermoforming

Physical	Typical Value (English)		Typical Value (SI)		Test Based On
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	1.8	g/10 min	1.8	g/10 min	ASTM D1238
Density	0.900	g/cm³	0.900	g/cm³	ExxonMobil Method

Mechanical	Typical Value (English)		Typical Value (SI)		Test Based On
Tensile Strength at Yield					ASTM D638
2.0 in/min (51 mm/min)	5550	psi	38.3	MPa	
Elongation at Yield (2.0 in/min (51 mm/min))	7.7	%	7.7	%	ASTM D638
Flexural Modulus - 1% Secant					
0.051 in/min (1.3 mm/min)	293000	psi	2020	MPa	ASTM D790A
0.51 in/min (13 mm/min)	333000	psi	2300	MPa	ASTM D790B

Impact	Typical Value (English)		Typical Value (SI)		Test Based On
Notched Izod Impact (73°F (23°C))	0.83	ft·lb/in	44	J/m	ASTM D256A

Thermal	Typical Value (English)		Typical Value (SI)		Test Based On
Deflection Temperature Under Load (DTUL) at 66psi - Unannealed	241	°F	116	°C	ASTM D648