

Achieve™ Advanced PP8285E1

Polypropylene Impact Copolymer

Product Description

A high crystallinity, high impact copolymer resin designed for injection molded applications requiring excellent processing attributes.

General

Features	- Balanced Stiffness/Toughness - Good Impact Resistance	- Good Processability - Heat Aging Resistant	Nucleated
Uses	Appliance Components	Automotive Applications	Industrial Applications
Appearance	Natural Color		
Form(s)	Pellets		
Processing Method	Compounding	Injection Molding	

Physical	Typical Value (English)	Typical Value (SI)	Test Based On
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	30 g/10 min	30 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
Tensile Strength at Yield 2.0 in/min (51 mm/min)	2940 psi	20.3 MPa	ASTM D638
Tensile Stress at Yield	2890 psi	19.9 MPa	ISO 527-2
Elongation at Yield	5.7 %	5.7 %	ASTM D638
Tensile Strain at Yield	5.0 %	5.0 %	ISO 527-2
Flexural Modulus - 1% Secant 0.051 in/min (1.3 mm/min)	144000 psi	993 MPa	ASTM D790A
0.51 in/min (13 mm/min)	164000 psi	1130 MPa	ASTM D790B
Flexural Modulus (0.079 in/min (2.0 mm/min))	148000 psi	1020 MPa	ISO 178

Impact	Typical Value (English)	Typical Value (SI)	Test Based On
Notched Izod Impact 0°F (-18°C)	1.7 ft-lb/in	89 J/m	ASTM D256A
73°F (23°C)	No Break	No Break	
Notched Izod Impact Strength -4°F (-20°C)	3.2 ft-lb/in ²	6.8 kJ/m ²	ISO 180/1A
73°F (23°C)	22 ft-lb/in ²	46 kJ/m ²	
Gardner Impact -20°F (-29°C), 0.125 in (3.18 mm), Geometry GC	292 in-lb	33.0 J	ASTM D5420

Thermal	Typical Value (English)	Typical Value (SI)	Test Based On
Heat Deflection Temperature (0.45 MPa)	181 °F	82.8 °C	ISO 75-2/B
Deflection Temperature Under Load (DTUL) at 66psi - Unannealed	198 °F	92.0 °C	ASTM D648

