

ExxonMobil™ PP7031E2

Polypropylene Impact Copolymer

ExxonMobil Chemical

Message:

An impact-resistant copolymer resin suitable for extrusion applications, which has high melt viscosity and excellent rigidity, impact resistance and dimensional stability. It is suitable for bellows, profiles, sheets and thermoforming.

General Information	
Features	Nucleated
	Rigidity, high
	High crystallization
	Impact resistance, high
	Low liquidity
Uses	Bellows
	Composite
	Tools/Parts Box
	Industrial application
	Architectural application field
	Consumer goods application field
Appearance	Natural color
Forms	Particle
Processing Method	Sheet extrusion molding
	Thermoforming
	Profile extrusion molding
	Compression molding

Physical	Nominal Value	Unit	Test Method
Melt Mass-Flow Rate (MFR)			ISO 1133
230°C/2.16 kg	1.0	g/10 min	ISO 1133
230°C/5.0 kg	4.0	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	62		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus - Secant	1400	MPa	ISO 527-2/1
Tensile Stress (Yield)	28.0	MPa	ISO 527-2/50
Tensile Strain (Yield)	8.0	%	ISO 527-2/50
Flexural Modulus - Secant	1350	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method

Charpy Notched Impact Strength			ISO 179/1eA
-20°C	5.0	kJ/m ²	ISO 179/1eA
0°C	8.0	kJ/m ²	ISO 179/1eA
23°C	75	kJ/m ²	ISO 179/1eA
Notched Izod Impact (23°C)	60	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	93.0	°C	ISO 75-2/B
1.8 MPa, not annealed	53.0	°C	ISO 75-2/A
Vicat Softening Temperature	149	°C	ISO 306/A50
Melting Temperature (DSC)	164	°C	ISO 3146
Peak Crystallization Temperature (DSC)	127	°C	ISO 3146
Legal statement			

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