

ExxonMobil™ PP7033E3

Polypropylene Impact Copolymer

ExxonMobil Chemical

Message:

A copolymer resin with impact resistance is used for consumer products and industrial products requiring high impact strength.

General Information			
UL YellowCard	E225564-229787		
Features	Rigidity, high		
	Equilibrium rigidity/toughness		
	Impact resistance, high		
	Medium liquidity		
Uses	Industrial application		
	Container		
	Barrel		
	Consumer goods application field		
	Hard packaging		
Loading box			
Appearance	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	8.0	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness	89		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1290	MPa	ISO 527-2/1
Tensile Strength			
Yield ¹	23.9	MPa	ASTM D638
Yield	23.1	MPa	ISO 527-2/50
Tensile Elongation			
Yield ²	6.5	%	ASTM D638
Yield	5.6	%	ISO 527-2/50
Flexural Modulus			
1% secant ³	1140	MPa	ASTM D790A
1% secant ⁴	1280	MPa	ASTM D790B
-- ⁵	1190	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	4.3	kJ/m ²	ISO 179/1eA
-20°C	5.4	kJ/m ²	ISO 179/1eA
0°C	6.7	kJ/m ²	ISO 179/1eA
23°C	14	kJ/m ²	ISO 179/1eA
Notched Izod Impact			
23°C	280	J/m	ASTM D256A
-40°C	4.0	kJ/m ²	ISO 180/1A
-18°C	5.7	kJ/m ²	ISO 180/1A
23°C	13	kJ/m ²	ISO 180/1A
Dart Drop Impact ⁶ (-29°C, 3.18 mm)	28.1	J	ASTM D5420
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, not annealed	90.2	°C	ASTM D648
0.45 MPa, not annealed	85.3	°C	ISO 75-2/Bf
0.45 MPa, annealed	114	°C	ASTM D648
1.8 MPa, not annealed	50.9	°C	ISO 75-2/A

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NOTE

- | | |
|----|-------------|
| 1. | 51 mm/min |
| 2. | 51 mm/min |
| 3. | 1.3 mm/min |
| 4. | 13 mm/min |
| 5. | 2.0 mm/min |
| 6. | Geometry GC |

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