

ExxonMobil™ PP8285E1

Polypropylene Impact Copolymer

ExxonMobil Chemical

Message:

A copolymer resin with high crystallinity and high impact strength is used in injection molding applications requiring excellent processing properties.

General Information			
Features	Nucleated		
	Equilibrium rigidity/toughness		
	Impact resistance, good		
	Workability, good		
	Good heat aging resistance		
Uses	Industrial application		
	Home appliance components		
	Application in Automobile Field		
Appearance	Natural color		
Forms	Particle		
Processing Method	Composite		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	30	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Yield ¹	20.8	MPa	ASTM D638
Yield	20.2	MPa	ISO 527-2
Tensile Elongation			
Yield	6.1	%	ASTM D638
Yield	5.0	%	ISO 527-2
Flexural Modulus			
1% secant ²	1040	MPa	ASTM D790A
1% secant ³	1150	MPa	ASTM D790B
-- ⁴	1090	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-30°C	8.0	kJ/m ²	ISO 179
23°C	50	kJ/m ²	ISO 179

Notched Izod Impact			
-18°C	99	J/m	ASTM D256A
23°C	No Break		ASTM D256
-30°C	8.5	kJ/m ²	ISO 180/1A
23°C	47	kJ/m ²	ISO 180/1A
Instrumented Dart Impact			ASTM D3763
-30°C	39.2	J	ASTM D3763
-20°C	37.8	J	ASTM D3763
23°C	32.6	J	ASTM D3763
Dart Drop Impact ⁵ (-29°C, 3.18 mm)	34.7	J	ASTM D5420

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, not annealed	92.0	°C	ASTM D648
0.45 MPa, not annealed	87.8	°C	ISO 75-2/B
1.8 MPa, not annealed	50.9	°C	ISO 75-2/A

Legal statement

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NOTE

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

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