

ExxonMobil™ AP3N

Polypropylene Impact Copolymer

ExxonMobil Chemical

Message:

A copolymer resin with medium impact strength is suitable for household appliances requiring good rigidity and short molding cycle.

General Information			
UL YellowCard	E225564-550935		
Features	Nucleated		
	Rigidity, high		
	Highlight		
	Fast molding cycle		
	Medium liquidity		
	Medium impact resistance		
Uses	Electrical appliances		
	Home appliance components		
	Consumer goods application field		
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)	10	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness	98		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1690	MPa	ISO 527-2/1
Tensile Strength			
Yield ¹	28.8	MPa	ASTM D638
Yield	28.2	MPa	ISO 527-2/50
Tensile Elongation			
Yield ²	5.0	%	ASTM D638
Yield	5.0	%	ISO 527-2/50
Flexural Modulus			
1% secant ³	1480	MPa	ASTM D790A
1% secant ⁴	1710	MPa	ASTM D790B
-- ⁵	1510	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method

Charpy Notched Impact Strength			ISO 179/1eA
-30°C	3.6	kJ/m ²	ISO 179/1eA
-20°C	4.0	kJ/m ²	ISO 179/1eA
0°C	4.5	kJ/m ²	ISO 179/1eA
23°C	8.6	kJ/m ²	ISO 179/1eA
Notched Izod Impact			
23°C	96	J/m	ASTM D256A
-40°C	3.8	kJ/m ²	ISO 180/1A
-18°C	4.5	kJ/m ²	ISO 180/1A
23°C	8.3	kJ/m ²	ISO 180/1A
Dart Drop Impact ⁶ (-29°C, 3.18 mm)	18.0	J	ASTM D5420
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, not annealed	114	°C	ASTM D648
0.45 MPa, not annealed	100	°C	ISO 75-2/Bf
0.45 MPa, annealed	123	°C	ASTM D648
1.8 MPa, not annealed	54.0	°C	ISO 75-2/A
Legal statement			
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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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