

ExxonMobil™ AP03B

Polypropylene Impact Copolymer

ExxonMobil Chemical

Message:

A copolymer resin with high crystallinity and medium impact strength has high melt flow rate and excellent processing performance. It is suitable for injection molded large household appliances and automobile internal parts.

General Information			
UL YellowCard	E225564-550933		
Features	Rigidity, high		
	High crystallization		
	Workability, good		
	Fast molding cycle		
	High liquidity		
	Medium impact resistance		
Uses	Industrial application		
	Home appliance components		
	Application in Automobile Field		
	Car interior parts		
	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)	30	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness	95		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1440	MPa	ISO 527-2/1
Tensile Strength			
Yield ¹	26.6	MPa	ASTM D638
Yield	25.1	MPa	ISO 527-2/50
Tensile Elongation			
Yield ²	5.0	%	ASTM D638
Yield	4.9	%	ISO 527-2/50
Flexural Modulus			
1% secant ³	1310	MPa	ASTM D790A
1% secant ⁴	1500	MPa	ASTM D790B

-- ⁵	1260	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	3.4	kJ/m ²	ISO 179/1eA
-20°C	3.8	kJ/m ²	ISO 179/1eA
0°C	4.2	kJ/m ²	ISO 179/1eA
23°C	7.6	kJ/m ²	ISO 179/1eA
Notched Izod Impact			
-18°C	34	J/m	ASTM D256A
23°C	72	J/m	ASTM D256A
-40°C	2.9	kJ/m ²	ISO 180/1A
-18°C	4.1	kJ/m ²	ISO 180/1A
23°C	7.9	kJ/m ²	ISO 180/1A
Dart Drop Impact ⁶ (-29°C, 3.18 mm)	17.3	J	ASTM D5420
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, not annealed	105	°C	ASTM D648
0.45 MPa, not annealed	93.5	°C	ISO 75-2/Bf
0.45 MPa, annealed	119	°C	ASTM D648
1.8 MPa, not annealed	54.6	°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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