

ExxonMobil™ AP3AW

Polypropylene Impact Copolymer

ExxonMobil Chemical

Message:

A copolymer resin with ultraviolet stability and medium impact strength is used in automobile battery boxes.

General Information			
UL YellowCard	E225564-550934		
Features	Low warpage		
	Rigidity, high		
	Good UV resistance		
	Medium liquidity		
	Medium impact resistance		
Uses	Battery box		
	Parts under the hood of a car		
	Application in Automobile 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	96		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1500	MPa	ISO 527-2/1
Tensile Strength			
Yield ¹	27.1	MPa	ASTM D638
Yield	25.7	MPa	ISO 527-2/50
Tensile Elongation			
Yield ²	5.6	%	ASTM D638
Yield	5.7	%	ISO 527-2/50
Flexural Modulus			
1% secant ³	1340	MPa	ASTM D790A
1% secant ⁴	1520	MPa	ASTM D790B
-- ⁵	1340	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA

-30°C	3.3	kJ/m ²	ISO 179/1eA
-20°C	3.9	kJ/m ²	ISO 179/1eA
0°C	4.9	kJ/m ²	ISO 179/1eA
23°C	9.9	kJ/m ²	ISO 179/1eA
Notched Izod Impact			
-18°C	35	J/m	ASTM D256A
23°C	90	J/m	ASTM D256A
-40°C	3.4	kJ/m ²	ISO 180/1A
-18°C	4.5	kJ/m ²	ISO 180/1A
23°C	8.8	kJ/m ²	ISO 180/1A
Dart Drop Impact ⁶ (-29°C, 3.18 mm)	18.1	J	ASTM D5420
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, not annealed	99.4	°C	ASTM D648
0.45 MPa, not annealed	92.5	°C	ISO 75-2/Bf
0.45 MPa, annealed	116	°C	ASTM D648
1.8 MPa, not annealed	53.4	°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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