

PP ABS AF312C

Acrylonitrile Butadiene Styrene

Performance Plastics, Ltd.

Message:

AF-312C is specifically engineered to meet the need for high performance products in the flame retardant resin applications. AF-312C provides an optimum balance of physical properties, high heat resistance, outstanding UV stability and good finished part aesthetics.

General Information			
Additive	Flame Retardant		
	UV Stabilizer		
Features	Flame Retardant		
	Good UV Resistance		
	High Heat Resistance		
	Pleasing Surface Appearance		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.18	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238
200°C/5.0 kg	5.1	g/10 min	
220°C/10.0 kg	53	g/10 min	
230°C/3.8 kg	17	g/10 min	
Molding Shrinkage - Flow	0.40	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	22000	MPa	ASTM D638
Tensile Strength ² (Yield)	43.4	MPa	ASTM D638
Tensile Elongation ³			ASTM D638
Yield	5.0	%	
Break	20	%	
Flexural Modulus ⁴	27000	MPa	ASTM D790
Flexural Strength ⁵	71.1	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Unnotched Izod Impact			ASTM D256
-30°C, 3.20 mm	78	J/m	
-30°C, 6.40 mm	78	J/m	
23°C, 3.20 mm	280	J/m	
23°C, 6.40 mm	250	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 6.40 mm	88.0	°C	

0.45 MPa, Annealed, 6.40 mm	83.0	°C	
1.8 MPa, Unannealed, 6.40 mm	76.0	°C	
1.8 MPa, Annealed, 6.40 mm	84.0	°C	
Vicat Softening Temperature	84.0	°C	ASTM D1525 ⁶
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
1.60 mm	V-0		
3.20 mm	V-0		
NOTE			
1.	50 mm/min		
2.	50 mm/min		
3.	50 mm/min		
4.	15 mm/min		
5.	15 mm/min		
6.	Rate A (50°C/h), Loading 2 (50 N)		

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