

AF312C ABS: Flame Retardant

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.

Properties

Physical	Method	Condition	Unit	Value
Melt Index	ASTM			
	D1238	200°C/5kg	g/10min	5.1
	ASTM			
	D1238	220℃/10kg	g/10min	53
	ASTM			
	D1238	230°C/3.8kg	g/10min	17.1
Specific Gravity	ASTM D792	23℃	_	1.18
Mold Shrinkage	ASTM D955	_	%	0.4~0.7

Mechanical	Method	Condition	Unit	Value
Tensile Strength at Yield	ASTM D638	50mm/min	MPa	43.4
Tensile Modulus	ASTM D638	50mm/min	MPa	22,000
Elongation at Yield	ASTM D638	50mm/min	%	5
Elongation at Break	ASTM D638	50mm/min	%	20
Flexural Strength	ASTM D790	15mm/min	MPa	71.1
Flexural Modulus	ASTM D790	15mm/min	MPa	27000
IZOD Impact strength	ASTM D256	6.4mm,23°C	J/m	245
	ASTM D256	6.4mm,−30°C	J/m	78.4
	ASTM D256	3.2mm,23℃	J/m	284.2
	ASTM D256	3.2mm,-30°C	J/m	78.4

Thermal	Method	Condition	Unit	Value
Heat Deflection Temp	ASTM D648	6.4mm,18.5kg/cm²(unannealed)	Ĉ	76
	ASTM D648	6.4mm,4.6kg/cm²(unannealed)	Ç	88
	ASTM D648	6.4mm,18.5kg/cm²(annealed)	Ç	84
	ASTM D648	6.4mm,4.6kg/cm²(annealed)	Ĵ	83
Vicat Softening Temp	ASTM	5kg,50°C/hr		
	D1525		°C	84

Flammability	Method	Condition	Unit	Value
Flammability	UL94	3.2mm	class	V-0
	UL94	1.6mm	Class	V-0

The values quoted are the average of results obtained under laboratory conditions and are given only as an indication to enable customers to make use of our products.

 $\label{prospective users should determine the suitability of materials before adopting them on a commercial scale. \\$

Performance Plastics Ltd Tel: 01425 403543

Website

www.performance-plastics.co.uk