

OnFlex™ AF 7210-80

Thermoplastic Elastomer

PolyOne Corporation

Message:

Onflex™AF 7210-80 is an easy-to-process TPE, mainly developed for various applications of automobiles.

Great look

has good adhesion to polypropylene

It has good performance in some static mechanical seals, such as sealing rings, fasteners, plugs and cable clamps

good UV performance

OnFlex™AF 7210-80B = black

OnFlex™AF 7210-80N = natural

General Information			
Features	Workability, good		
Uses	overmolding		
	Plug		
	Washer		
	Fasteners		
	Application in Automobile Field		
RoHS Compliance	RoHS compliance		
Appearance	Black		
	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density ¹	0.990	g/cm ³	ISO 1133, ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			
Shao A, 3 seconds ²	80		ISO 868
Shaw A, 10 seconds ³	77		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength			
Fracture ⁴	11.0	MPa	ISO 37
Fracture ⁵	9.50	MPa	ASTM D412
Tensile Elongation			
Fracture ⁶	700	%	ISO 37
Fracture ⁷	650	%	ASTM D412
Tear Strength			
-- ⁸	43.0	kN/m	ISO 34-1
-- ⁹	40.5	kN/m	ASTM D624

Compression Set			
23°C, 72 hr ¹⁰	32	%	ISO 815, ASTM D395
70°C, 22 hr ¹¹	43	%	ISO 815
70°C, 22 hr ¹²	47	%	ASTM D395
Flammability	Nominal Value	Unit	Test Method
Burning Rate	< 100	mm/min	DIN 75200
Additional Information	Nominal Value		Test Method
Weather Resistance ¹³	expected to pass		SAE J2527
Injection	Nominal Value	Unit	
Suggested Max Regrind	20	%	
Rear Temperature	160 - 188	°C	
Middle Temperature	177 - 193	°C	
Front Temperature	188 - 210	°C	
Nozzle Temperature	188 - 216	°C	
Mold Temperature	30 - 60	°C	
Injection Rate	Fast		
Back Pressure	0.00 - 0.827	MPa	
Screw Speed	40 - 100	rpm	
NOTE			
1.	2 hours		
2.	2 hours		
3.	China		
4.	2 hours		
5.	China		
6.	2 hours		
7.	China		
8.	2 hours		
9.	China		
10.	2 hours		
11.	2 hours		
12.	China		
13.	OnFlex AF 7210-60B (60Sh A; black) as part the of the AF-range has been tested according waethering test SAE J2527. It has successfully passed the extended test time of 1500h.		

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