

Flexalloy® 9100-55

Polyvinyl Chloride Elastomer

Teknor Apex Company

Message:

Flexalloy®9100-55 is a polyvinyl chloride elastomer (PVC elastomer) material. This product is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific. The processing method is extrusion or injection molding.

Flexalloy®The main features of 9100-55 are:

- high molecular weight
- environmental protection/green
- good weather resistance
- Heat resistance

Typical application areas include:

- Hose
- sheet
- Movie
- Sling/Rope
- engineering/industrial accessories

General Information			
Features	Ultra high molecular weight		
	Recyclable materials		
	Good weather resistance		
	Thermal stability, good		
	General		
Uses	Films		
	Wheels		
	Washer		
	Tools/Parts Box		
	Pipe		
	Pipe fittings		
	Seals		
	Weather-resistant sealing strip		
	Sheet		
	Application in Automobile Field		
	Rope		
	Footwear		
Forms	Particle		
Processing Method	Extrusion		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.13	g/cm ³	ASTM D792

Molding Shrinkage - Flow	1.0 - 2.5	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 15 sec)	54		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Fracture	10.7	MPa	ASTM D638
100% strain	3.79	MPa	ASTM D638
Tensile Elongation (Break)	380	%	ASTM D638
Elastomers	Nominal Value	Unit	Test Method
Tear Strength ¹	28.0	kN/m	ASTM D624
Compression Set			ASTM D395
23°C, 22 hr	23	%	ASTM D395
70°C, 22 hr	55	%	ASTM D395
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-56.1	°C	ASTM D746
Additional Information			
脆化温度,ASTM D746: < -56°C			
Injection	Nominal Value	Unit	
Suggested Max Regrind	20	%	
Rear Temperature	171 - 188	°C	
Middle Temperature	171 - 188	°C	
Front Temperature	171 - 188	°C	
Mold Temperature	23.9 - 51.7	°C	
Back Pressure	0.345 - 1.03	MPa	
Screw L/D Ratio	20.0 : 1.0 - 24.0 : 1.0		
Screw Compression Ratio	2.0 : 1.0 - 3.0 : 1.0		
NOTE			
1.	C mould		

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