

# Flexalloy® 9100-45

Polyvinyl Chloride Elastomer

Teknor Apex Company

Message:

Flexalloy® 9100-45 is a Polyvinyl Chloride Elastomer (PVC Elastomer) material. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America for extrusion or injection molding.

Important attributes of Flexalloy® 9100-45 are:

- Eco-Friendly/Green
- Good Weather Resistance
- Heat Resistant
- High Molecular Weight
- Typical applications include:
  - Hose/Tubing
  - Consumer Goods
  - Containers
  - Engineering/Industrial Parts
  - Film

General Information	
Features	General Purpose
	Good Thermal Stability
	Good Weather Resistance
	Recyclable Material
	Ultra High Molecular Weight
Uses	Film
	Footwear
	Gaskets
	Hose
	Rope
	Seals
	Sheet
	Tool/Tote Box
	Tubing
	Weatherstripping
	Wheels
Forms	Pellets
Processing Method	Extrusion
	Injection Molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.11	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow	1.0 to 2.5	%	ASTM D955

Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 15 sec)	45		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Break	8.27	MPa	
100% Strain	2.55	MPa	
Tensile Elongation (Break)	390	%	ASTM D638
Elastomers	Nominal Value	Unit	Test Method
Tear Strength <sup>1</sup>	22.8	kN/m	ASTM D624
Compression Set			ASTM D395
23°C, 22 hr	23	%	
70°C, 22 hr	57	%	
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-56.1	°C	ASTM D746
Injection	Nominal Value	Unit	
Suggested Max Regrind	20	%	
Rear Temperature	160 to 177	°C	
Middle Temperature	160 to 177	°C	
Front Temperature	160 to 177	°C	
Mold Temperature	23.9 to 51.7	°C	
Back Pressure	0.345 to 1.03	MPa	
Screw L/D Ratio	20.0:1.0 to 24.0:1.0		
Screw Compression Ratio	2.0:1.0 to 3.0:1.0		
NOTE			
1.	Die C		

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#### Recommended distributors for this material

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