

Sarlink® TPV X6145N

Thermoplastic Vulcanizate

Teknor Apex Company

Message:

Sarlink® X6145N is an engineered material designed primarily for demanding consumer and automotive interior applications. Available only in natural, Sarlink® X6145N exhibits excellent compression set and flex fatigue, high and low temperature performance. The material can be processed by injection molding and extrusion for applications such as building profiles, interior car applications, colored applications, over molding and translucent products.

General Information			
Features	Low compressive deformability		
	Good flexibility		
	Heat resistance, high		
Uses	overmolding		
	Car interior equipment		
	Consumer goods application field		
	Profile		
Appearance	Translucent		
	Natural color		
Forms	Particle		
Processing Method	Extrusion		
	Profile extrusion molding		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.882	g/cm ³	ISO 1183
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ISO 868
Shaw A, 5 seconds, extruded	44		ISO 868
Shore A, 5 seconds, injection molding	44		ISO 868
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ISO 37
Transverse flow: 100% strain	1.10	MPa	ISO 37
Flow: 100% strain	1.30	MPa	ISO 37
Tensile Stress			ISO 37
Acos flow: Yield	3.90	MPa	ISO 37
Flow: Yield	3.40	MPa	ISO 37
Tensile Elongation			ISO 37
Transverse flow: Fracture	640	%	ISO 37

Flow: Fracture	490	%	ISO 37
Compression Set			ISO 815
23°C, 72 hr	22	%	ISO 815
70°C, 22 hr	29	%	ISO 815
100°C, 22 hr	35	%	ISO 815
Injection	Nominal Value	Unit	
Rear Temperature	180 - 215	°C	
Middle Temperature	180 - 215	°C	
Front Temperature	180 - 215	°C	
Nozzle Temperature	187 - 220	°C	
Processing (Melt) Temp	185 - 220	°C	
Mold Temperature	10.0 - 55.0	°C	
Back Pressure	0.100 - 1.00	MPa	
Screw Speed	100 - 200	rpm	
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	180 - 200	°C	
Cylinder Zone 2 Temp.	180 - 205	°C	
Cylinder Zone 3 Temp.	187 - 210	°C	
Cylinder Zone 4 Temp.	187 - 210	°C	
Melt Temperature	195 - 215	°C	
Die Temperature	195 - 215	°C	
Take-Off Roll	20.0 - 50.0	°C	
Extrusion instructions			

Screen Pack: 20 to 60 meshScrew: 3:1 Compression Ratio

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