

# Telcar® TL-83-F943D22-NT BLU

Teknor Apex Company - Thermoplastic Elastomer

Friday, June 30, 2017

## General Information

### Product Description

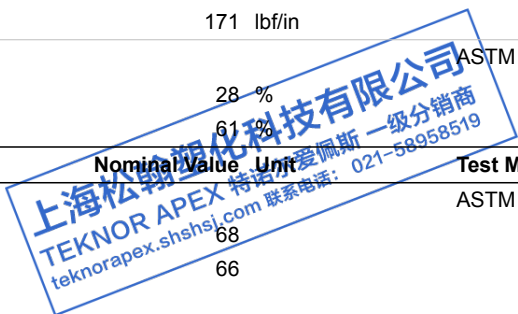
Telcar TL-83-F943D22-NT BLU is a high performance thermoplastic elastomer with exceptional organoleptic properties that also provides excellent sealing properties when used in hot-fill cap liner applications. Telcar TL-83-F943D22-NT BLU is suitable for PP closures.

### General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Food Contact Acceptable • Low Density • Low Specific Gravity	• Lubricated • Medium Flow • Medium Hardness	• Slip • Without Fillers
Uses	• Caps	• Closures	• Packaging
Agency Ratings	• FDA Food Contact, Unspecified Rating		
RoHS Compliance	• RoHS Compliant		
Appearance	• Blue	• Translucent	
Forms	• Pellets		
Processing Method	• Extrusion	• Injection Molding	

## ASTM & ISO Properties<sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.890		ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	13	g/10 min	ASTM D1238
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress <sup>2</sup>			ASTM D412
Across Flow : 100% Strain	295	psi	
Flow : 100% Strain	322	psi	
Tensile Stress <sup>2</sup>			ASTM D412
Across Flow : 300% Strain	380	psi	
Flow : 300% Strain	461	psi	
Tensile Strength <sup>2</sup>			ASTM D412
Across Flow : Break	1310	psi	
Flow : Break	908	psi	
Tensile Elongation <sup>2</sup>			ASTM D412
Across Flow : Break	900	%	
Flow : Break	750	%	
Tear Strength <sup>2</sup>			ASTM D624
Across Flow	173	lbf/in	
Flow	171	lbf/in	
Compression Set <sup>3</sup>			ASTM D395B
73°F, 22 hr	28	%	
158°F, 22 hr	61	%	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore A, 1 sec, Injection Molded	68		
Shore A, 5 sec, Injection Molded	66		


  
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Revision Date: 6/1/2016

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## Teknor Apex Company - Thermoplastic Elastomer

### Legal Statement

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### Processing Information

Injection	Nominal Value	Unit
Rear Temperature	340 to 380	°F
Middle Temperature	350 to 390	°F
Front Temperature	360 to 400	°F
Nozzle Temperature	370 to 410	°F
Processing (Melt) Temp	370 to 410	°F
Mold Temperature	77 to 150	°F
Injection Pressure	200 to 1000	psi
Injection Rate	Moderate-Fast	
Back Pressure	25.0 to 50.0	psi
Screw Speed	50 to 100	rpm
Cushion	0.150 to 1.00	in

### Injection Notes

Drying is not necessary. However, if moisture is a problem, dry the pellets for 2 to 4 hours at 150°F (65°C).

Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	330 to 370	°F
Cylinder Zone 2 Temp.	340 to 380	°F
Cylinder Zone 3 Temp.	350 to 390	°F
Cylinder Zone 4 Temp.	350 to 390	°F
Cylinder Zone 5 Temp.	360 to 400	°F
Die Temperature	374 to 410	°F

### Extrusion Notes

Screw Speed: 30 to 100 rpm

### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> Die C, 20 in/min

<sup>3</sup> Type 1

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