

Telcar® TL-83F943D-OL BLU 729

Thermoplastic Elastomer

Teknor Apex Company

Message:

Telcar®TL-83F943D-OL BLU 729 is a thermoplastic elastomer (TPE) 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.

Typical application areas include:

hat/cap/cork

packing

General Information	
Features	Low Specific Gravity Without Fillers Low density smoothness Medium liquidity Lubrication Medium hardness
Uses	Packaging Shield Shell
Appearance	Blue
Forms	Particle
Processing Method	Extrusion Injection molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.888	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	19	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore A, 1 second, injection molding	75		ASTM D2240
Shore A, 5 seconds, injection molding	72		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
Transverse flow: 100% strain ¹	3.36	MPa	ASTM D412
Flow: 100% strain ²	5.32	MPa	ASTM D412
Transverse flow: 300% strain ³	4.54	MPa	ASTM D412
Flow: 300% strain ⁴	6.54	MPa	ASTM D412

Tensile Strength ⁵			ASTM D412
Transverse flow: Fracture	11.1	MPa	ASTM D412
Flow: Fracture	7.85	MPa	ASTM D412
Tensile Elongation ⁶			ASTM D412
Transverse flow: Fracture	720	%	ASTM D412
Flow: Fracture	460	%	ASTM D412
Tear Strength ⁷			
Transverse flow	41.9	kN/m	ASTM D1004
Flow	39.2	kN/m	ASTM D624
Compression Set ⁸			ASTM D395B
23°C, 22 hr	34	%	ASTM D395B
70°C, 22 hr	61	%	ASTM D395B
Injection	Nominal Value	Unit	
Rear Temperature	171 - 193	°C	
Middle Temperature	177 - 199	°C	
Front Temperature	182 - 204	°C	
Nozzle Temperature	188 - 210	°C	
Processing (Melt) Temp	188 - 210	°C	
Mold Temperature	25.0 - 65.6	°C	
Injection Pressure	1.38 - 6.89	MPa	
Injection Rate	Moderate-Fast		
Back Pressure	0.172 - 0.345	MPa	
Screw Speed	50 - 100	rpm	
Cushion	3.81 - 25.4	mm	
Injection instructions			
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.	166 - 188	°C	
Cylinder Zone 2 Temp.	171 - 193	°C	
Cylinder Zone 3 Temp.	177 - 199	°C	
Cylinder Zone 5 Temp.	182 - 204	°C	
Die Temperature	190 - 210	°C	
Extrusion instructions			
Screw Speed: 30 to 100 rpm			
NOTE			
1.	Mouth die C, 510mm/min		
2.	Mouth die C, 510mm/min		
3.	C mold, 510mm/min		
4.	C mold, 510mm/min		
5.	C mold, 510mm/min		
6.	Mouth die C, 510mm/min		
7.	C mold, 510mm/min		

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Recommended distributors for this material

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