

Telcar® TL-2882D (PRELIMINARY DATA)

Thermoplastic Elastomer

Teknor Apex Company

Message:

Telcar TL-2882D is a general purpose thermoplastic elastomer designed for a variety of consumer product applications requiring a soft, rubber-like feel. Telcar TL-2882D is a low hardness grade that exhibits medium flow characteristics, suitable for injection molding and extrusion.

General Information			
Features	smoothness		
	Medium liquidity		
	Lubrication		
	Fill		
	Hardness, low		
	Medium density		
Uses	Handle		
	Stationery		
	Consumer goods application field		
Appearance	Opacity		
Forms	Particle		
Processing Method	Extrusion		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.01	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	5.0	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shaw A, 1 sec	47		ASTM D2240
Shore A, 5 seconds, injection molding	45		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
Transverse flow: 100% strain ¹	1.00	MPa	ASTM D412
Flow: 100% strain ²	1.54	MPa	ASTM D412
Transverse flow: 300% strain ³	1.72	MPa	ASTM D412
Flow: 300% strain ⁴	2.68	MPa	ASTM D412
Tensile Strength ⁵			ASTM D412
Transverse flow: Fracture	8.12	MPa	ASTM D412
Flow: Fracture	6.29	MPa	ASTM D412

Tensile Elongation ⁶			ASTM D412
Transverse flow: Fracture	780	%	ASTM D412
Flow: Fracture	670	%	ASTM D412
Tear Strength ⁷			ASTM D624
Transverse flow	26.6	kN/m	ASTM D624
Flow	22.9	kN/m	ASTM D624
Compression Set ⁸ (23°C, 22 hr)	30	%	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		
8.	Type 1		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

