+135-3858-6433 (GuangDong)
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TEKNOR APEX

Telcar® TL-2882D (PRELIMINARY DATA)

Teknor Apex Company - Thermoplastic Elastomer

General Information

Product Description

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, medium density, RoHS compliant grade suitable for injection molding.

General			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Bondability • Filled • Good Colorability • Good Mold Release	• Good Moldability • Good Processability • Low Hardness • Lubricated	• Medium Density • Medium Flow • Slip
Uses	• Consumer Applications	• Handles	• Writing Instruments
RoHS Compliance	• RoHS Compliant		
Appearance	• Colors Available	• Natural Color	• Opaque
Forms	• Pellets		
Processing Method	• Injection Molding		

ASTM & ISO Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.01		ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	5.0	g/10 min	ASTM D1238
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress [2]			ASTM D412
Across Flow : 100% Strain	145	psi	
Flow : 100% Strain	223	psi	
Tensile Stress [2]			ASTM D412
Across Flow : 300% Strain	249	psi	
Flow : 300% Strain	388	psi	
Tensile Strength [2]			ASTM D412
Across Flow : Break	1180	psi	
Flow : Break	912	psi	
Tensile Elongation [2]			ASTM D412
Across Flow : Break	780	%	
Flow : Break	670	%	
Tear Strength [2]			ASTM D624
Across Flow	152	lbf/in	
Flow	131	lbf/in	
Compression Set [3] (73°F, 22 hr)	30	%	ASTM D395B
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness			ASTM D2240
Shore A, 1 sec	47		
Shore A, 5 sec, Injection Molded	45		

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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).

Notes

[1] Typical properties: these are not to be construed as specifications.

[2] Die C, 20 in/min

[3] Type 1