

# Telcar® TL-3260R

## Teknor Apex Company - Thermoplastic Elastomer

Thursday, June 29, 2017

#### **General Information**

#### **Product Description**

Telcar TL-3260R is a general purpose thermoplastic elastomer designed for industrial and electrical applications, including fiber optic cable jacketing, requiring flexibility over a wide temperature range. Telcar TL-3260R is a high hardness, high density grade that is RoHS compliant. This grade is UL 94V-0 rated and is suitable for injection molding and extrusion.

General	·	·	
Material Status	Commercial: Active		
Availability	<ul><li> Africa &amp; Middle East</li><li> Asia Pacific</li></ul>	<ul><li>Europe</li><li>Latin America</li></ul>	North America
Features	<ul><li>Bondability</li><li>Chemical Resistant</li><li>Filled</li><li>Flame Retardant</li></ul>	<ul><li>Good Adhesion</li><li>Good Processability</li><li>Good Tear Strength</li><li>Good Toughness</li></ul>	<ul><li> Halogenated</li><li> High Density</li><li> High Hardness</li><li> High Specific Gravity</li></ul>
Uses	<ul><li>Building Wire Insulation</li><li>Fiber Optic Cable Jacketing</li><li>General Purpose</li></ul>	<ul><li>Industrial Applications</li><li>Rubber Replacement</li><li>Wire &amp; Cable Applications</li></ul>	Wire Jacketing
RoHS Compliance	RoHS Compliant		
Appearance	Natural Color		
Forms	• Pellets		
Processing Method	• Extrusion	Injection Molding	

ASTM & ISO Properties 1				
Physical	Nominal Value	Unit	Test Method	
Specific Gravity	1.23		ASTM D792	
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	0.86	g/10 min	ASTM D1238	
Elastomers	Nominal Value	Unit	Test Method	
Tensile Stress			ASTM D412	
Across Flow: 100% Strain	1040	psi		
Flow: 100% Strain	1550	psi		
Tensile Strength			ASTM D412	
Across Flow : Break	1600	psi		
Flow: Break	1550	psi		
Tensile Elongation			ASTM D412	
Across Flow : Break	660	%		
Flow : Break	240	%		
Tear Strength - Across Flow	457	lbf/in	ASTM D624	
Compression Set			ASTM D395	
73°F, 22 hr	47	%		
158°F, 22 hr	86	%		
194°F, 70 hr	97	%		
Hardness	Nominal Value	Unit HIR	Test Method	
		THE POR	1/2 #P 10 - 10 - 10	

Durometer Hardness
Shore D, 1 sec
Shore D, 5 sec

Nominal Value Unit Test Method

21-58958-ASTM D2240

Thermal

Brittleness Temperature

Nominal Value Unit

Test Method

ASTM D746

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Nominal Value	Unit	Test Method
		ISO 188
-0.30	%	
2.9	%	
		ISO 188
-0.30	%	
2.9	%	
2.3		ISO 188
Nominal Value	Unit	Test Method
720	V/mil	ASTM D149
		ASTM D150
2.32		
2.33		
		ASTM D150
4.0E-4		
2.0E-4		
Nominal Value	Unit	Test Method
V-0		UL 94
24	%	ASTM D2863
Nominal Value	Unit	Test Method
701	Pa·s	ASTM D3835
	-0.30 2.9 -0.30 2.9 2.3 Nominal Value 720 2.32 2.33 4.0E-4 2.0E-4 Nominal Value V-0 24 Nominal Value	-0.30 % 2.9 %  -0.30 % 2.9 %  2.3  Nominal Value Unit  720 V/mil  2.32 2.33  4.0E-4 2.0E-4  Nominal Value Unit  V-0 24 %  Nominal Value Unit

#### **Legal Statement**

The information and recommendations contained in this bulletin are, to the best of our knowledge, accurate and reliable but no guarantee of their accuracy is made. All products are sold upon condition that purchasers shall make their own tests to determine the suitability of such products for their particular purposes and uses and purchaser assumes all risks and liability for the results of use of the products, including use in accordance with seller's recommendations. Nothing in this bulletin constitutes permission or a recommendation to practice or use any invention covered by any patent owned by this company or others. There is no warranty of merchantability and there are no other warranties for the products described. For detailed Product Stewardship information, please contact us. Any product of Teknor Apex, including product names, shall not be used or tested in medical or food contact applications without the prior written acknowledgement of Teknor Apex as to the intended use. Please note that some products may not be available in one or more countries.

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 大方以			
Injection Notes	blem, dry the pellets for 2 to 4 hours at 30 F (65°C).  Nominat Value, Unit			
Drying is not necessary. However, if moisture is a pro-	blem, dry the pellets for 2 to 4 hours at 50°F (65°C).			
Extrusion	Nominat Value Unit			
Drying Temperature	TEKNOR Shahafa			
Drying Time	TEKNOR shehi 76 °F  teknorapex shehi 76 °F  2.0 hr			
Cylinder Zone 1 Temp.	330 to 370 °F			
Cylinder Zone 2 Temp.	340 to 380 °F			

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Extrusion	Nominal Value Unit
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	

#### Extrusion Notes

Screw Speed: 30 to 100 rpm

#### **Notes**

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

#### Teknor Apex Company Corporate Headquarters

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