+135-3858-6433 (GuangDong)
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TEKNOR APEX

Telcar® TL-88-N873C BLK 111

Teknor Apex Company - Thermoplastic Elastomer

General Information

Product Description

Telcar TL-88-N873C BLK 111 is a general purpose thermoplastic elastomer used in a variety of automotive and industrial applications. Telcar TL-88-N873C BLK 111 is a low denisty medium hardness grade suitable for processing by injection molding and extrusion.

General			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Bondability • Good Color Stability • Good Mold Release	• Good Moldability • Good Processability • Light Stabilized	• Low Density
Uses	• Automotive Applications • Automotive Exterior Parts	• Automotive Exterior Trim • Automotive Interior Parts	• General Purpose • Weatherstripping
RoHS Compliance	• RoHS Compliant		
Appearance	• Black		
Forms	• Pellets		
Processing Method	• Extrusion	• Injection Molding	

ASTM & ISO Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.01		ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	0.40	g/10 min	ASTM D1238
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress			ISO 37
Across Flow : 100% Strain	290	psi	
Flow : 100% Strain	402	psi	
Tensile Strength			ISO 37
Across Flow : Break	508	psi	
Flow : Break	537	psi	
Tensile Elongation			ISO 37
Across Flow : Break	510	%	
Flow : Break	330	%	
Tear Strength - Across Flow	143	lbf/in	ISO 34-1
Compression Set (73°F, 22 hr)	36	%	ISO 815
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness			ISO 868
Shore A	74		
Shore A, 5 sec	70		
Thermal	**Nominal Value**	**Unit**	**Test Method**
Brittleness Temperature	< -76.0	°F	ASTM D746

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Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air - Across Flow			ISO 188
230°F, 1008 hr	-2.0	%	
257°F, 168 hr	-3.0	%	
Change in Tensile Strain at Break in Air - Across Flow			ISO 188
230°F, 1008 hr	-9.0	%	
257°F, 168 hr	1.0	%	
Change in Shore Hardness in Air			ISO 188
Shore A, 230°F, 1008 hr	-0.40		
Shore A, 257°F, 168 hr	0.30		

Fill Analysis	Nominal Value	Unit	Test Method
Apparent Viscosity (392°F, 206 sec^-1)	447	Pa·s	ASTM D3835

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

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

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