

Telcar® TL-88-N873C BLK 111

Thermoplastic Elastomer

Teknor Apex Company

Message:

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 density medium hardness grade suitable for processing by injection molding and extrusion.

General Information			
UL YellowCard	E54709-245365	E142591-100745011	
Features	Low density		
Uses	Weather-resistant sealing strip		
	Application in Automobile Field		
	Car interior parts		
	Automotive exterior parts		
	Car exterior decoration		
	General		
Appearance	Translucent		
Forms	Particle		
Processing Method	Extrusion		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.01	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	0.40	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ISO 868
Shaw A	74		ISO 868
Shaw A, 5 seconds	70		ISO 868
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ISO 37
Transverse flow: 100% strain	2.00	MPa	ISO 37
Flow: 100% strain	2.77	MPa	ISO 37
Tensile Strength			ISO 37
Transverse flow: Fracture	3.50	MPa	ISO 37
Flow: Fracture	3.70	MPa	ISO 37
Tensile Elongation			ISO 37
Transverse flow: Fracture	510	%	ISO 37
Flow: Fracture	330	%	ISO 37
Tear Strength - Across Flow	25	kN/m	ISO 34-1

Compression Set (23°C, 22 hr)	36	%	ISO 815
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air - Across Flow			ISO 188
110°C, 1008 hr	-2.0	%	ISO 188
125°C, 168 hr	-3.0	%	ISO 188
Changes in tensile stress upon fracture in air-Transverse flow			ISO 188
110°C, 1008 hr	-9.0	%	ISO 188
125°C, 168 hr	1.0	%	ISO 188
Change in Shore Hardness in Air			ISO 188
Support a, 110°C, 1008 hr	-0.40		ISO 188
Support a, 125°C, 168 hr	0.30		ISO 188
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -60.0	°C	ASTM D746
Fill Analysis	Nominal Value	Unit	Test Method
Apparent Viscosity (200°C, 206 sec ⁻¹)	447	Pa · s	ASTM D3835
Legal statement			
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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	
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			

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