

# Sarlink® TPE ME-2380-01 BLK 111

Thermoplastic Elastomer

Teknor Apex Company

Message:

Sarlink ME-2380-01 BLK 111 is a high performance thermoplastic elastomer designed for automotive exterior molded applications. Sarlink ME-2380-01 BLK 111 is a medium hardness, low density, UV stabilized grade delivering excellent aesthetics and good injection molding cycle times.

General Information			
Features	Low Specific Gravity		
	Low density		
	Good UV resistance		
	Workability, good		
	Good adhesion		
	Good chemical resistance		
	Excellent appearance		
	Elastic		
	Medium hardness		
Uses	Handle		
	Weather-resistant sealing strip		
	Application in Automobile Field		
	Automotive exterior parts		
	Car exterior decoration		
	Rubber substitution		
RoHS Compliance	RoHS compliance		
Appearance	Black		
Forms	Particle		
Processing Method	Extrusion		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.898	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	20	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shaw A, 1 sec	83		ASTM D2240
Shaw A, 5 seconds	80		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D412

Transverse flow: Fracture	12.7	MPa	ASTM D412
Flow: Fracture	6.69	MPa	ASTM D412
Tensile Elongation			ASTM D412
Transverse flow: Fracture	850	%	ASTM D412
Flow: Fracture	640	%	ASTM D412
Tear Strength - Across Flow	38.5	kN/m	ASTM D624
Compression Set			ASTM D395
23°C, 22 hr	31	%	ASTM D395
70°C, 257 hr	46	%	ASTM D395
125°C, 70 hr	87	%	ASTM D395

#### Additional Information

Fogging, 3 Hrs @ 100C, 21C Plate = 96%

#### Legal statement

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Injection	Nominal Value	Unit
Rear Temperature	199 - 210	°C
Middle Temperature	204 - 216	°C
Front Temperature	210 - 221	°C
Nozzle Temperature	216 - 227	°C
Processing (Melt) Temp	216 - 227	°C
Mold Temperature	35 - 66	°C
Injection Pressure	1.38 - 6.89	MPa
Injection Rate	Fast	
Back Pressure	0.172 - 0.862	MPa
Screw Speed	50 - 120	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.	193 - 204	°C
Cylinder Zone 2 Temp.	199 - 210	°C
Cylinder Zone 3 Temp.	204 - 216	°C
Cylinder Zone 4 Temp.	204 - 216	°C
Cylinder Zone 5 Temp.	210 - 221	°C
Die Temperature	216 - 227	°C

#### Extrusion instructions

Screw Speed: 30 to 100 rpm

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