

Sarlink® TPE OM-1135N

Thermoplastic Elastomer

Teknor Apex Company

Message:

Sarlink®TPE OM-1135N is a thermoplastic elastomer (TPE) material. This product is available in the Asia-Pacific region and is processed by extrusion or injection molding.

Typical application areas include:

Handle
engineering/industrial accessories
Electrical/electronic applications
electrical appliances
Tools

General Information			
Uses	Handle		
	overmolding		
	Electrical appliances		
	Power/other tools		
	Soft handle		
	Mobile phone		
	Sporting goods		
	Stationery		
	Knob		
	Dental application field		
	Toothbrush handle		
	Bonding		
Appearance	Opacity		
Processing Method	Extrusion		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.970	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	4.0	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 5 sec)	35		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength (Break)	3.60	MPa	ASTM D412
Tensile Elongation (Break)	600	%	ASTM D412
Injection	Nominal Value	Unit	
Drying Temperature	60.0	°C	
Drying Time	2.0 - 4.0	hr	

Rear Temperature	138 - 160	°C
Middle Temperature	182 - 199	°C
Front Temperature	182 - 199	°C
Nozzle Temperature	193 - 210	°C
Processing (Melt) Temp	177 - 199	°C
Mold Temperature	4.44 - 48.9	°C
Injection Pressure	1.38 - 5.52	MPa
Back Pressure	0.172 - 0.862	MPa
Screw Speed	50 - 100	rpm
Cushion	3.81 - 25.4	mm

Injection instructions

Moisture can degrade the material. Drying is suggested. This can be accomplished by placing the material in a desiccant dryer for 2 to 4 hours at 140°F.

Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	138 - 149	°C
Cylinder Zone 2 Temp.	149 - 160	°C
Cylinder Zone 3 Temp.	160 - 182	°C
Cylinder Zone 5 Temp.	171 - 193	°C
Die Temperature	182 - 204	°C

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