

Elexar® EL-1402N

Thermoplastic Elastomer

Teknor Apex Company

Message:

Elexar® EL-1402N is a thermoplastic elastomer (TPE) material. This product is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific. The processing method is extrusion or injection molding.

Elexar®The main features of the EL-1402N are:

flame retardant/rated flame

ROHS certification

high liquidity

Good processability

Good UV resistance

Typical application areas include:

Wire and cable

Electrical/electronic applications

General Information	
Features	Sunlight Resistant
	smoothness
	Good UV resistance
	Good formability
	Good coloring
	High liquidity
	Special specifications
	Fill
	Halogen-free
	Medium density
	Medium hardness
Uses	Cable sheath
	Wire and cable applications
	Wire sheath
	Connector
	Fatigue elimination supplies
	cord sheath
	Terminal cable sheath material
RoHS Compliance	RoHS compliance
Appearance	Natural color
Forms	Particle
Processing Method	Extrusion
	Injection molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.08	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	30	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	80		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength (Break)	5.31	MPa	ASTM D412
Tensile Elongation (Break)	540	%	ASTM D412
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-49.0	°C	ASTM D746
Flammability	Nominal Value	Unit	Test Method
Flame Rating (3.0 mm, NC)	V-0		UL 94
Oxygen Index	30	%	ASTM D2863

Legal statement

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Injection	Nominal Value	Unit
Rear Temperature	199 - 216	°C
Middle Temperature	213 - 221	°C
Front Temperature	221 - 227	°C
Nozzle Temperature	221 - 229	°C
Processing (Melt) Temp	221 - 229	°C
Mold Temperature	25 - 66	°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

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 - 210	°C
Cylinder Zone 2 Temp.	199 - 216	°C
Cylinder Zone 3 Temp.	213 - 221	°C
Cylinder Zone 5 Temp.	221 - 227	°C
Die Temperature	221 - 229	°C

Extrusion instructions

Screw Speed: 30 to 100 rpm

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