

# Elastocon® 8078NL

Thermoplastic Elastomer

Elastocon TPE Technologies

## Message:

Elastocon® 8078NL is a colorable thermoplastic elastomer formulated for applications that require rubber-like properties and a scratch and mar resistant surface finish. Elastocon® 8078NL is FDA compliant and well suited for consumer goods and industrial applications requiring U.V. stability. Elastocon® 8078NL can be overmolded to polypropylene.

General Information	
Features	High scratch resistance Good UV resistance Good coloring
Uses	overmolding Industrial application Consumer goods application field
Agency Ratings	FDA not rated
Forms	Particle
Processing Method	Blow molding Extrusion Injection molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.03	g/cm <sup>3</sup>	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	78		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain)	4.14	MPa	ASTM D412
Tensile Strength (Yield)	8.48	MPa	ASTM D412
Tensile Elongation (Break)	600	%	ASTM D412
Injection	Nominal Value	Unit	
Rear Temperature	177 - 193	°C	
Front Temperature	182 - 199	°C	
Nozzle Temperature	188 - 204	°C	
Mold Temperature	21.1 - 37.8	°C	
Injection Rate	Moderate-Fast		
Back Pressure	0.345 - 0.689	MPa	

Injection instructions
Elastocon® thermoplastic elastomers are shear dependent and have been formulated to process on conventional thermoplastic equipment for injection molding, extrusion or blow molding.

Extrusion	Nominal Value	Unit
Hopper Temperature	< 79.4	°C
Cylinder Zone 1 Temp.	191 - 232	°C
Cylinder Zone 2 Temp.	191 - 232	°C
Cylinder Zone 3 Temp.	191 - 232	°C
Cylinder Zone 4 Temp.	191 - 232	°C
Cylinder Zone 5 Temp.	191 - 232	°C
Die Temperature	191 - 232	°C
Extrusion instructions		

Compression ratio: 2.5 to 3.0

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#### Recommended distributors for this material

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