

Elastocon® 8078N

Thermoplastic Elastomer

Elastocon TPE Technologies

Message:

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

General Information			
Additive	UV stabilizer		
Features	Good UV resistance		
	Good coloring		
	Soft		
	Excellent appearance		
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	1.01	g/cm ³	ASTM D792
Molding Shrinkage - Flow	1.5	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	80		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain)	5.17	MPa	ASTM D412
Tensile Strength (Yield)	9.73	MPa	ASTM D412
Tensile Elongation (Break)	590	%	ASTM D412
Compression Set (23°C, 22 hr)	24	%	ASTM D395B
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
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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