

Elastocon TPE Technologies Elastocon® 8078N Thermoplastic Elastomer

Category : Polymer , Thermoplastic , Elastomer, TPE

Material Notes:

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. Information provided by Elastocon® TPE Technologies

Order this product through the following link:

http://www.lookpolymers.com/polymer_Elastocon-TPE-Technologies-Elastocon-8078N-Thermoplastic-Elastomer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.01 g/cc	1.01 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.010 - 0.020 cm/cm	0.010 - 0.020 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	80	80	ASTM D2240
Tensile Strength, Yield	9.729 MPa	1411 psi	ASTM D412
Elongation at Break	585 %	585 %	ASTM D412
100% Modulus	0.00517 GPa	0.750 ksi	ASTM D412
Compression Set	24 % @Time 79200 sec	24 % @Time 22.0 hour	ASTM D395B

Processing Properties	Metric	English	Comments
Feed Temperature	79.0 °C	174 °F	
Rear Barrel Temperature	177 - 193 °C	350 - 380 °F	
Front Barrel Temperature	182 - 199 °C	360 - 390 °F	
Nozzle Temperature	188 - 204 °C	370 - 400 °F	
Mold Temperature	21.1 - 37.8 °C	70.0 - 100 °F	
Back Pressure	0.345 - 0.689 MPa	50.0 - 100 psi	

Descriptive Properties	Value	Comments
Injection Rate	Fast	

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