

Elastocon TPE Technologies Elastocon® 8078NL Thermoplastic Elastomer

Category : Polymer , Thermoplastic , Elastomer, TPE

Material Notes:

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. Information provided by Elastocon TPE Technologies, Inc.

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Specific Gravity	1.03 g/cc	1.03 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	78	78	ASTM D2240
Tensile Strength	8.48 MPa	1230 psi	ASTM D412
Elongation at Break	600 %	600 %	ASTM D412
100% Modulus	0.00414 GPa	0.600 ksi	ASTM D412
Compression Set	24 % @Temperature 20.0 °C, Time 79200 sec	24 % @Temperature 68.0 °F, Time 22.0 hour	ASTM D395B

Processing Properties	Metric	English	Comments
Feed Temperature	<= 79.4 °C	<= 175 °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	Moderate to Fast	

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