

Advanced Elastomer Systems VistaFlex® 641N Thermoplastic Rubber (discontinued **)

Category : Polymer , Thermoplastic , Elastomer, TPE , Thermoplastic Elastomer, Melt-Processible Rubber

Material Notes:

A translucent thermoplastic elastomer with snappiness. It can be processed using injection molding or extrusion processing techniques. Key Features: Flex modulus (1% Secant) 7.2 MPa (1050 psi); Vicat softening point, 48°C (118°F); Melt flow rate (230°C [446°F], 2160 g [76 oz], 3.5 g [0.1 oz]/10min); Excellent PE and PP modifier for improved impact and flexibility; Smooth part appearance; Snappy 'rubber band' performance; Approved for food contact; Low rubber gel content for film applications. Additional processing comments: Cycle times: initial inject 0.5 to 5 sec; secondary inject 1.5 to 10 sec. Initial inject pressure: high; just short of flash. Inject speed: just short of flash. Values below are for injection molded plaques, side gated, 82.6 mm x 117.5 mm x 3.0 mm. Tensile properties measured across flow. Data provided by Advanced Elastomer Systems. Advanced Elastomer Systems is now a part of ExxonMobil. This grade was removed from the Advanced Elastomers Systems standard product line before the ExxonMobil acquisition.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Advanced-Elastomer-Systems-VistaFlex-641N-Thermoplastic-Rubber-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	0.910 g/cc	0.0329 lb/in ³	TPE-0105 (ASTM D792)
Melt Flow	3.5 g/10 min @Load 2.16 kg, Temperature 230 °C	3.5 g/10 min @Load 4.76 lb, Temperature 446 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	60	60	5 Second; TPE-0169 (ASTM D 2240)
Tensile Strength, Ultimate	13.5 MPa	1960 psi	TPE-0153 (ASTM D 412)
Elongation at Break	788 %	788 %	TPE-0153 (ASTM D 412)
100% Modulus	0.00160 GPa	0.232 ksi	TPE-0153 (ASTM D 412)
Flexural Modulus	0.00720 GPa	1.04 ksi	1% Secant
Graves Tear Strength	33.0 kN/m	188 pli	TPE-0056 (ASTM D 624)
Compression Set	70 %	70 %	23°C, 168 hrs.; TPE-0016 (ASTM D 412)
Tensile Set	17 %	17 %	23°C, 168 hrs.; TPE-0053 (ASTM D 412)

Thermal Properties	Metric	English	Comments
Vicat Softening Point	48.0 °C	118 °F	
Brittleness Temperature			TPE-0089 (ASTM D 746)

Thermal Properties	≤ -60.0 °C Metric	≤ -76.0 °F English	Comments
Processing Properties	Metric	English	Comments
Rear Barrel Temperature	138 °C	280 °F	
Front Barrel Temperature	143 °C	289 °F	
Nozzle Temperature	149 °C	300 °F	
Melt Temperature	154 °C	309 °F	
Mold Temperature	21.0 - 49.0 °C	69.8 - 120 °F	

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