

Advanced Elastomer Systems VistaFlex® 714-N Thermoplastic Rubber (discontinued **)

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

Material Notes:

Description: A black high-flow thermoplastic elastomer especially designed for injection molding applications. It replaces soft thermoplastics such as SBS, SEBS, and PVC blends. Supplied as free-flowing pellets in 25 kilogram (55 pound) moisture barrier bags.
Features: High flow Good surface appearance on molded parts Good tensile properties and high elongation at break Good tear strength
Product Notes: Values are for injection molded plaques, side gated. 82.6 mm x 117.5 mm x 3 mm
 Information 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-714-N-Thermoplastic-Rubber-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.00 g/cc	0.0361 lb/in ³	ASTM D792
Melt Flow	25 g/10 min	25 g/10 min	
	@Load 5.00 kg, Temperature 230 °C	@Load 11.0 lb, Temperature 446 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	75	75	5 seconds; ASTM D2240
Tensile Strength at Break	4.20 MPa	609 psi	After 3000 hrs. Xenon test 1200; ISO 4665
	6.00 MPa	870 psi	Across flow; ASTM D412
Tensile Strength, Yield	3.50 MPa	508 psi	At 100% elongation, across flow; ASTM D412
Elongation at Break	487.5 %	487.5 %	After 3000 hrs. Xenon test 1200; ISO 4665
	650 %	650 %	Across flow; ASTM D412
Tensile Modulus	0.107 GPa	15.5 ksi	1mm/min; DIN 53457
Flexural Modulus	0.0840 GPa	12.2 ksi	1.7 mm/min; DIN 53457
Izod Impact, Notched	NB	NB	ISO 180A
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Tear Strength	31.6 kN/m	180 pli	73°F; ASTM D624
Compression Set	64 %	64 %	73°F, 22 hr, Method B; ASTM D395

Mechanical Properties	85 % Metric	85 % English	158°F, 22 hr, Method B; ASTM D395 Comments
Tensile Set	40 %	40 %	ASTM D412

Thermal Properties	Metric	English	Comments
Vicat Softening Point	40.0 °C	104 °F	Vicat A, 1 kg; DIN 53460/ISO 306
Brittleness Temperature	-45.6 °C	-50.0 °F	ASTM D746

Processing Properties	Metric	English	Comments
Processing Temperature	175 - 240 °C	347 - 464 °F	
Mold Temperature	20.0 - 40.0 °C	68.0 - 104 °F	

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