

PolyOne Versaflex™ HC 2110-43N Thermoplastic Elastomer (TPE)

Category : Polymer , Thermoplastic , Elastomer , TPE

Material Notes:

Versaflex™ HC 2110-43N is a unique TPE designed for the demanding requirements of gaskets and stoppers used in healthcare and food packaging applications. New Product. Commercial specifications have not been established. - Good Compression Set - Good Reseal Characteristics
 Purge thoroughly before and after use of this product with a low flow (0.5 - 2.5 MFR) polyethylene (PE) or polypropylene (PP). Versaflex™ HC 2110-43N has excellent melt stability. Maximum residence times may vary, depending on the size of the barrel. Generally, the barrel should be emptied if it is idle for periods of 8 - 10 minutes or longer. Drying is not Required
 Injection Speed: 1 to 3 in/sec
 1st Stage - Boost Pressure: 25 to 1000 psi
 2nd Stage - Hold Pressure: 30% of Boost
 Hold Time (Thick Part): 3 to 10 sec
 Hold Time (Thin Part): 1 to 3 sec
 Information provided by PolyOne

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Versaflex-HC-2110-43N-Thermoplastic-Elastomer-TPE.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.978 g/cc	0.978 g/cc	ASTM D792
Viscosity	10500 cP	10500 cP	ASTM D3835
	@Shear Rate 11200 1/s, Temperature 200 °C	@Shear Rate 11200 1/s, Temperature 392 °F	
	52700 cP	52700 cP	ASTM D3835
	@Shear Rate 1340 1/s, Temperature 200 °C	@Shear Rate 1340 1/s, Temperature 392 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	43	43	10 sec; ASTM D2240
Tensile Strength at Break	4.98 MPa	722 psi	Die C2 hr; ASTM D412
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Tensile Stress	0.924 MPa	134 psi	Die C2 hr; ASTM D412
	@Strain 100 %, Temperature 23.0 °C	@Strain 100 %, Temperature 73.4 °F	
	2.54 MPa	368 psi	Die C2 hr; ASTM D412
	@Strain 300 %, Temperature 23.0 °C	@Strain 300 %, Temperature 73.4 °F	
Elongation at Break	710 %	710 %	Die C2 hr; ASTM D412
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Compression Set	12 %	12 %	ASTM D395B

Mechanical Properties	Metric @Temperature 23.0 °C, Time 79200 sec	English @Temperature 73.4 °F, Time 22.0 hour	Comments
	22 %	22 %	
	@Temperature 70.0 °C, Time 79200 sec	@Temperature 158 °F, Time 22.0 hour	ASTM D395B

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	171 - 193 °C	340 - 379 °F	
Middle Barrel Temperature	193 - 243 °C	379 - 469 °F	
Front Barrel Temperature	204 - 254 °C	399 - 489 °F	
Nozzle Temperature	216 - 254 °C	421 - 489 °F	
Mold Temperature	15.6 - 37.8 °C	60.1 - 100 °F	
Back Pressure	0.000 - 0.827 MPa	0.000 - 120 psi	
Screw Speed	25 - 100 rpm	25 - 100 rpm	

Descriptive Properties	Value	Comments
Agency Ratings	ISO 10993 Part 4	
	ISO 10993 Part 5	
	USP Class VI	
Appearance	Natural Color	
Generic Material	TPE	
Generic Name	Thermoplastic Elastomer (TPE)	
Manufacturer / Supplier	GLS Thermoplastic Elastomers	
Processing Method	Injection Molding	
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	

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