

Multibase TPSiV® 3111-70A Thermoplastic Elastomer

Category : Polymer , Thermoplastic , Elastomer, TPE , Thermoplastic Vulcanizate Elastomer (TPV) , Silicone, Thermoplastic

Material Notes:

TPSiV™ material for injection molding and extrusion applicationsAPPLICATIONS: Solution for appliance, sports and leisure, and construction applications where excellent hydrolysis resistance, high and/or low temperature resistance, and abrasion resistance are required.; NFS and FDA Compliance.FEATURES and BENEFITS: This TPSiV™ material has the following features and benefits: Smooth, silky feel; Excellent hydrolysis resistance; Excellent high temperature performance in air; Excellent low temperature flexibility; Excellent abrasion resistance; Bonds without adhesives to PC, ABS, PU, and PVC; Plastizer freeCOMPOSITION: Vulcanized silicone thermoplastic resinInformation provided by Multibase, a Dow Corning Company

Order this product through the following link:

http://www.lookpolymers.com/polymer_Multibase-TPSiV-3111-70A-Thermoplastic-Elastomer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.15 g/cc	1.15 g/cc	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	70	70	ASTM D2240
	60	60	
	@Treatment Temp. 140 °C, Time 3.629e+6 sec	@Treatment Temp. 284 °F, Time 1008 hour	heat aging; ASTM D573-99
	67	67	
	@Treatment Temp. 120 °C, Time 3.629e+6 sec	@Treatment Temp. 248 °F, Time 1008 hour	heat aging; ASTM D573-99
	75	75	
	@Treatment Temp. 100 °C, Time 3.60e+6 sec	@Treatment Temp. 212 °F, Time 1000 hour	water immersion
Tensile Strength	15.0 MPa	2180 psi	ASTM D412
	8.85 MPa	1280 psi	
	@Treatment Temp. 140 °C, Time 3.629e+6 sec	@Treatment Temp. 284 °F, Time 1008 hour	heat aging; ASTM D573-99
	11.25 MPa	1632 psi	
	@Treatment Temp. 100 °C, Time 3.60e+6 sec	@Treatment Temp. 212 °F, Time 1000 hour	water immersion
	12.15 MPa	1762 psi	

Mechanical Properties	Metric	English	Comments
	@ Treatment Temp. 120 °C, Time 3.629e+6 sec	@ Treatment Temp. 248 °F, Time 1008 hour	ASTM D573-99
Elongation at Break	600 %	600 %	ASTM D412
	378 %	378 %	
	@Treatment Temp. 140 °C, Time 3.629e+6 sec	@Treatment Temp. 284 °F, Time 1008 hour	heat aging; ASTM D573-99
	480 %	480 %	
	@Treatment Temp. 100 °C, Time 3.60e+6 sec	@Treatment Temp. 212 °F, Time 1000 hour	water immersion
	702 %	702 %	
	@Treatment Temp. 120 °C, Time 3.629e+6 sec	@Treatment Temp. 248 °F, Time 1008 hour	heat aging; ASTM D573-99
Compression Set	20 %	20 %	ASTM D395
	@Temperature 23.0 °C, Time 79200 sec	@Temperature 73.4 °F, Time 22.0 hour	

Processing Properties	Metric	English	Comments
Feed Temperature	170 °C	338 °F	extrusion
	180 °C	356 °F	injection
Nozzle Temperature	205 °C	401 °F	
Adapter Temperature	190 °C	374 °F	
Die Temperature	190 °C	374 °F	
Melt Temperature	190 °C	374 °F	extrusion
	205 °C	401 °F	injection
Mold Temperature	10.0 - 30.0 °C	50.0 - 86.0 °F	
Drying Temperature	80.0 °C	176 °F	
Dry Time	2 - 4 hour	2 - 4 hour	
Moisture Content	<= 0.030 %	<= 0.030 %	
Back Pressure	0.350 MPa	50.8 psi	

Descriptive Properties	Value	Comments
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Injection Speed Descriptive Properties	fast Value	Comments
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