

S&E Specialty Polymers TuffFlex™ GA-509-80-5 TPE Compound

Category : Polymer , Thermoplastic , Elastomer , TPE

Material Notes:

Application: A Matte Finish, Flexible, Sunlight Resistant, 105°C Jacketing Compound with 60°C Oil Resistance. Information provided by S&E Specialty Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_SE-Specialty-Polymers-TuffFlex-GA-509-80-5-TPE-Compound.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.40 g/cc	1.40 g/cc	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	79.0	79.0	ASTM D2240
	@Time 15.0 sec	@Time 0.00417 hour	
Tensile Strength	>= 17.9 MPa	>= 2600 psi	ASTM D412
	18.079 MPa	2622.1 psi	Air Oven Aging
	@Temperature 136 °C, Time 605000 sec	@Temperature 277 °F, Time 168 hour	
	18.795 MPa	2726.0 psi	Air Oven Aging
	@Temperature 121 °C, Time 605000 sec	@Temperature 250 °F, Time 168 hour	
	19.869 MPa	2881.8 psi	Oil Immersion
	@Temperature 60.0 °C, Time 605000 sec	@Temperature 140 °F, Time 168 hour	
Elongation at Break	>= 350 %	>= 350 %	ASTM D412
	238 %	238 %	Oil Immersion
	@Treatment Temp. 60.0 °C, Time 605000 sec	@Treatment Temp. 140 °F, Time 168 hour	
	296.1 %	296.1 %	Air Oven Aging
	@Treatment Temp. 136 °C, Time 605000 sec	@Treatment Temp. 277 °F, Time 168 hour	
	343 %	343 %	Air Oven Aging
	@Treatment Temp. 121 °C, Time 605000 sec	@Treatment Temp. 250 °F, Time 168 hour	

Thermal Properties	Metric	English	Comments
Brittleness Temperature	-21.0 °C	-5.80 °F	ASTM D746
Oxygen Index	26.0 %	26.0 %	ASTM D2863

Processing Properties	Metric	English	Comments
Processing Temperature	171 - 182 °C	340 - 360 °F	Suggested Stock

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