PRODUCT DATASHEET

Symflex® HS13A55.B01

symplast
symflex® TPE / TPV Compounds

Product Description

Symflex HS13A55.B01 is a heat & UV stabilized, SEBS based Thermoplastic Elastomer (TPE) compound with high heat resistance and excellent compression set at elevated temperatures.

General

Material Status	Commercial: Active
Availability	Please contact with your Sales Representative for complete Country availability.
RoHS Compliance	RoHS Compliant
Reach Compliance	Reach Compliant
Apperance	Black
Processing Method	Extrusion & Injection

Physical	Nominal Value	Unit	Test Methods
Density	1,20	g/cm3	ISO 2781

Hardness	Nominal Value	Unit	Test Methods
Durometer Hardness			
Shore A, 5 sec	55		ISO 48-4

Mechanical Properties	Nominal Value	Unit	Test Methods
Tensile Stress (100% strain)	2,2	Mpa	ISO 37
Tensile Stress (300% strain)	3,8	Mpa	ISO 37
Tensile Strength at Break	5,2	Mpa	ISO 37
Tensile Elongation at break	550	%	ISO 37
Compression Set			ISO 815
72 hour / 23°C	15	%	
22 hour / 70°C	29	%	
22 hour / -25°C	48	%	

Environmental Resistance

Ozone	Excellent
Water	Excellent
Alcohol	Excellent
Sulphuric Acid	Excellent
Detergent	Excellent

The above results are the typical values that were obtained from our lab measurements.These results can not be considered as a guarantee specification.Results may vary depending on the conditions, test equipment, and molds.We recommend customers to test them according to their test procedures.

PROCESSING CONDITIONS

Injection	Nominal Value	Unit
Pre-drying Temperature	-	
Pre-drying Time	-	
Rear Temperature	170 to 190	°C
Middle Temperature	175 to 200	°C
Front Temperature	185 to 210	°C
Nozzle Temperature	190 to 225	°C
Processing(Melt) Temperature	190 to 220	°C
Mold Temperature	30 to 50	°C
Injection Pressure	5,2 to 8,2	Mpa
Injection Rate	Fast	
Screw Speed	50 to 200	rpm
Cushion	3,18 to 12,7	mm

Extrusion	Nominal Value	Unit
Drying Temperature	-	
Drying Time	-	
Zone 1 Temperature	160 to 190	°C
Zone 2 Temperature	170 to 200	°C
Zone 3 Temperature	180 to 210	°C
Die Temperature	190 to 210	°C
Mold Temperature	190 to 200	°C

Notes

Pre-Drying is not necessary. However, if moisture is a problem, dry the compound for 2 to 3 hours at 80 °C.

Maximum service temperature : 135 °C

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