

Hanwha Total TPE SE87

Thermoplastic Elastomer

HANWHA TOTAL PETROCHEMICALS Co., Ltd.

Message:

SE87 Thermoplastic Elastomer is a dynamically fully cured thermoplastic elastomer. There is no vulcanization, and this is shipped pre-mixed an ready to process. This can be processed on extrusion,injection and blow molding equipment for faster molding cycle times and lower per-part costs.

General Information			
Features	Fast Molding Cycle		
	Good Chemical Resistance		
	Good Dimensional Stability		
	Good Processability		
	Good Weather Resistance		
	Oil Resistant		
	Recyclable Material		
Uses	Automotive Exterior Parts		
	Automotive Interior Parts		
	Blow Molding Applications		
	Cable Jacketing		
	Electrical Parts		
	Gaskets		
	Seals		
	Wire Jacketing		
Forms	Pellets		
Processing Method	Blow Molding		
	Extrusion		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.930	g/cm³	ASTM D1505
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 5 sec)	87		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength (Break)	15.0	MPa	ASTM D412
Tensile Elongation (Break)	520	%	ASTM D412
Tear Strength	59.8	kN/m	ASTM D624
Compression Set (25°C, 70 hr)	45	%	ASTM D395
Thermal	Nominal Value	Unit	Test Method


Brittleness Temperature	-58.0	°C	ASTM D746
Injection	Nominal Value	Unit	
Rear Temperature	190 to 200	°C	
Middle Temperature	185 to 195	°C	
Front Temperature	180 to 190	°C	
Processing (Melt) Temp	210	°C	
Mold Temperature	30.0 to 60.0	°C	
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	180 to 190	°C	
Cylinder Zone 2 Temp.	185 to 195	°C	
Cylinder Zone 3 Temp.	190 to 200	°C	
Adapter Temperature	200 to 210	°C	
Die Temperature	210 to 220	°C	

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