

Evoprene™ CE 6186

Thermoplastic Elastomer

AlphaGary

Message:

The Evoprene™ CE range has been specially created to offer processors a cost engineered range of easy processing, fast cycling TPE compounds for general purpose applications. Formulated primarily for injection moulding this range is compatible for coinjection with polypropylene. The soft to mid hardness range compounds offer high levels of flexibility with good recovery properties at room temperature and excellent low temperature flexibility to -600C. The compounds are normally supplied as natural or black. Natural compound can be readily coloured with a universal masterbatch. As with all Evoprene™ TPE compounds the Evoprene™ CE range is fully recyclable at all stages through the processing chain.

General Information			
Features	Fast Molding Cycle		
	General Purpose		
	Good Adhesion		
	Good Electrical Properties		
	Good Flexibility		
	Good Processability		
	High Friction		
	Low Temperature Flexibility		
	Ozone Resistant		
	Recyclable Material		
Uses	General Purpose		
RoHS Compliance	Contact Manufacturer		
Appearance	Black		
	Natural Color		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.10	g/cm³	ISO 2781
Molding Shrinkage	0.50 to 1.2	%	
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore A)	60		ISO 868
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain)	2.20	MPa	ISO 37
Tensile Stress (Yield)	4.80	MPa	ISO 37
Tensile Elongation (Break)	550	%	ISO 37
Tear Strength ¹	27	kN/m	ISO 34-1
Compression Set (23°C, 72 hr)	28	%	ISO 815
Additional Information	Nominal Value	Unit	Test Method

M-S Flow	1.67	MPa	Internal Method
Injection	Nominal Value	Unit	
Suggested Max Regrind	20	%	
Rear Temperature	160 to 180	°C	
Middle Temperature	160 to 180	°C	
Front Temperature	160 to 180	°C	
Nozzle Temperature	150 to 170	°C	
Processing (Melt) Temp	220	°C	
Mold Temperature	15.0 to 30.0	°C	
Injection Rate	Fast		
Vent Depth	0.020 to 0.050	mm	

NOTE			
1.	Method Ba, Angle (Unnicked)		

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