Evoprene™ COGEE 631

Styrene Ethylene Butylene Styrene Block Copolymer

AlphaGary

Message:

The Evoprene COGEE range was specially developed to provide materials which will comould or coextrude to engineering thermoplastics (ETPs). This enables, for example, polyamide (nylon) handles or ABS housings to be given a solt touch feel whilst polycarbonate lenses can have gaskets moulded on to provide a weathertight product.
The Evoprene COGEE grades are modified Kraton G based compounds. Many of the characteristics exhibited by the Evoprene G and Evoprene Super G ranges are shown by Evoprene COGEE compounds. However, they do have to be processed quite differently to obtain optimum bond strengths and performance characteristics.

General Information	
Features	Good Weather Resistance Ozone Resistant
Uses	Soft Touch Applications
Processing Method	Coextrusion Extrusion Injection Molding

Physical	Nominal Value	Unit	Test Method
Density	1.05	g/cm³	ISO 2781
Hardness	**Nominal Value**	**Unit**	**Test Method**
Shore Hardness (Shore A)	50		ISO 868
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Abrasion Resistance	271	mm³	DIN 53516
Service Temperature	-30 to 60	°C	
Bond Strength	0.940	MPa	Internal Method
M-S Flow	1.67	MPa	Internal Method
Ozone Resistance [1] (35°C)	No Cracks		ISO 1431-1
UV Rating [2] (40°C)	No Visible Cracks or Crazing		
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress			ISO 37
100% Strain	2.20	MPa	
300% Strain	3.70	MPa	
Tensile Stress (Yield)	3.60	MPa	ISO 37
Tensile Elongation (Break)	320	%	ISO 37
Tear Strength [3]	24	kN/m	ISO 34-1
Compression Set			ISO 815
23°C, 72 hr	37	%	
70°C, 22 hr	89	%	
100°C, 22 hr	89	%	

Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air (125°C, 336 hr)	6.0	%	ISO 1817
Change in Tensile Strain at Break in Air (125°C, 336 hr)	22	%	ISO 1817
Change in Shore Hardness in Air (125°C, 336 hr)	9.0		ISO 1817

Injection	Nominal Value	Unit
Drying Temperature	80.0	°C
Drying Time	4.0 to 6.0	hr
Suggested Max Regrind	20	%
Rear Temperature	250 to 270	°C
Middle Temperature	250 to 270	°C
Front Temperature	250 to 270	°C
Nozzle Temperature	250 to 270	°C
Processing (Melt) Temp	280	°C
Mold Temperature	30.0 to 60.0	°C
Injection Rate	Fast	
Vent Depth	0.020 to 0.050	mm

NOTE	
1.	100 pphm/200 hrs/20% Strain
2.	350 hrs
3.	Method Ba, Angle (Unnicked)

Recommended distributors for this material

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