SUNVIEO™ A7171

Thermoplastic Vulcanizate

Asahi Kasei Chemicals Corporation

Message:

SUNVIEO™ A7171 is a thermoplastic elastomer featuring ultra-high melt flow, good physical properties and UV and resistance. SUNVIEO™ A7171 is for use in injection molded parts, thin thickness and wide area such as automotive instrument panel skin. It can be also over molded for interior parts. It is polyolefin based and completely recyclable.
Key Features
Ultra high melt flow
Excellent moldability
Good physical properties and UV resistance
Recommended applications for wide area and thin thickness by injection molding

General Information	
Features	Good Moldability
	Good UV Resistance
	High Flow
	Recyclable Material
Uses	Automotive Instrument Panel
	Automotive Interior Parts
	Automotive Interior Trim
	Consumer Applications
	Electrical/Electronic Applications
	Furniture
	Overmolding
	Thin-walled Parts
RoHS Compliance	RoHS Compliant
Appearance	Opaque
Forms	Pellets
Processing Method	Foam Processing
	Injection Blow Molding
	Injection Molding
	Multi Injection Molding

Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
230°C/1.2 kg	55	g/10 min	
230°C/2.16 kg	250	g/10 min	
Molding Shrinkage			Internal Method

Across Flow	1.2	%	
Flow	1.4	%	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Shore Hardness (Shore A, 10 sec, 23°C, 2.00 mm)	75		ISO 7619
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress			ISO 37
100% Strain, 23°C	3.80	MPa	
200% Strain, 23°C	4.80	MPa	
Tensile Stress (Break, 23°C)	5.70	MPa	ISO 37
Tensile Elongation (Break, 23°C)	280	%	ISO 37
Tear Strength (23°C)	23	kN/m	ISO 34-1
Compression Set (100°C, 22 hr)	62	%	ISO 815
Aging	**Nominal Value**	**Unit**	**Test Method**
Change in Tensile Strength in Air	-3.5	%	ISO 188
Change in Tensile Strain at Break in Air	-7.9	%	ISO 188
Thermal	**Nominal Value**	**Unit**	**Test Method**
Brittleness Temperature	-49.0	°C	ASTM D746
Flammability	**Nominal Value**	**Unit**	**Test Method**
Burning Rate	88	mm/min	FMVSS 302
Fogging	91	%	SAE J1756
Oil Resistance - 80°C, 24hr	45	%	ISO 1817
Injection	**Nominal Value**	**Unit**	
Rear Temperature	160	°C	
Middle Temperature	180	°C	
Front Temperature	200	°C	
Nozzle Temperature	220 to 230	°C	
Processing (Melt) Temp	220 to 230	°C	
Mold Temperature	40.0 to 60.0	°C	
Injection Rate	Fast		
Back Pressure	0.500 to 3.00	MPa	
Screw Speed	50 to 100	rpm	
Cushion	5.00 to 10.0	mm	

Recommended distributors for this material

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