

TOPAS® COC General Properties(ISO)

Item	Unit	Test Method	Special
			Elastomer E-140
			Elastomer
Color No.			
ISO Marking Code		ISO11469 (JIS K6999)	>COC<
Density	Kg/m ³	ISO 1183	940
MVR (190°C, 2.16kg)	cm ³ /10min	ISO 1133	3
MVR (260°C, 2.16kg)	cm ³ /10min	ISO 1133	12
Tensile modulus (1mm/min)	MPa	ISO 527- 2/1A	50
Tensile stress at break (50mm/min)	MPa	ISO 527- 2/1A	46
Tensile strain at break (50mm/min)	%	ISO 527- 2/1A	> 500
Tensile modulus (1mm/min, -50°C)	MPa	ISO 527- 2/1A	1,700
Tensile stress at break (50mm/min, -50°C)	MPa	ISO 527- 2/1A	26
Tensile strain at break (50mm/min, -50°C)	%	ISO 527- 2/1A	> 200
Tear strength (machine direction)	kN/m	ISO 34-1	47
Compression set (72h, 23°C)	%	ISO 815	32
Compression set (24h, 60°C)	%	ISO 815	90
Hardness (Shore A)		ISO 868	89
Tm (Melt Temperature) (10°C/min)	°C	ISO 11357	84
Vicat softening temperature (50°C/h 10N)	°C	ISO 306	64
Water vapor permeability (Film) (23°C, 85%RH)	g · 100µm/(m ² · day)	ISO 15106-3	1.0
Water vapor permeability (Film) (38°C, 90%RH)	g · 100µm/(m ² · day)	ISO 15106-3	4.6
Oxygen Permeability (Film) (23°C, 50%RH)	cm ³ · 100µm/(m ² · day · bar)	ASTM D3985	1,200
Flammability		UL94	
The yellow card File No.			
Appropriate List number of Ministerial Ordinance for Export Trade Control			

All figures in the table are the typical values of the material and not the minimum values of the material specifications. All data shown here are not always applicable to parts used under different conditions. We do not guarantee that these data are directly applicable to the application conditions of users and we ask user to make his own decision on the application. For safe handling of materials we supply, it is

advised to refer to the Material Safety Data Sheet "SDS" of the proper material. This brochure is edited based on reference literatures, information and data currently available to us. So the contents of this brochure are subject to change without notice due to new data.

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