

TOPAS® COC General Properties(ISO)

Item	Unit	Test Method	Film
			5013F-04
			For Modifying PE etc.
Color No.			
ISO Marking Code		ISO11469 (JIS K6999)	>COC<
Density	Kg/m ³	ISO 1183	1,020
Water absorption (23°C, sat.)	%	ISO 62	0.01
MVR (190°C, 2.16kg)	cm ³ /10min	ISO 1133	< 0.1
MVR (230°C, 2.16kg)	cm ³ /10min	ISO 1133	9
Glass transition temperature (10°C/min)	°C	ISO 11357-1,-2,-3	134
Tensile modulus (Film) (machine direction)	MPa	ISO 527-3	2,600
Tensile modulus (Film) (transverse direction)	MPa	ISO 527-3	2,500
Tensile strength at break (Film) (machine direction)	MPa	ISO 527-3	35
Tensile strength at break (Film) (transverse direction)	MPa	ISO 527-3	25
Elongation at break (Film) (machine direction)	%	ISO 527-3	1.4
Elongation at break (Film) (transverse direction)	%	ISO 527-3	1.1
Gloss, 60° (Film)	%	ISO 2813	> 100
Haze (Film)	%	ISO 14782	< 1
Water vapor permeability (Film) (38°C, 90%RH)	g · 100µm/(m ² · day)	ISO 15106-3	1.0
Oxygen Permeability (Film) (23°C, 50%RH)	cm ³ · 100µm/(m ² · day · bar)	ASTM D3985	250
Elmendorf tear strength (machine direction)	g	ISO 6383-2	11
Elmendorf tear strength (transverse direction)	g	ISO 6383-2	11
Dart Drop Impact Strength, F50	g	ISO 7765-1	< 36
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 each 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 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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