

TECHNICAL DATA SHEET

[English Units]



TOPAS® 6013M-07

Cyclic Olefin Copolymer (COC)

1,53

Property	Value	Unit	Test Standard
Physical Properties			
Density	1020	kg/m ³	ISO 1183
Melt volume rate (MVR) (260°C, 2.16kg)	13	cm ³ /10min	ISO 1133
Melt flow rate (MFR) (260°C, 2.16kg)	12	g/10min	calculated
Water absorption (23°C-sat)	0,01	%	ISO 62
Mechanical Properties			
	0		
Tensile modulus (1mm/min)	420	kpsi	ISO 527-3
Tensile stress at break (5mm/min)	9100	psi	ISO 527-3
Tensile strain at break (5mm/min)	2,6	%	ISO 527-3
Charpy impact strength @ 23°C	6,7	ft-lbs/in ²	ISO 179/1eU
Charpy notched impact strength @ 23°C	0,8	ft-lbs/in ²	ISO 179/1eA
Thermal Properties			
Glass transition temperature (20°C/min)	288	°F	ISO 11357-1,-2
DTUL @ 0.45 MPa	266	°F	ISO 75-1, -2
Optical Properties			
Deg. of light transmission (t=2mm)	91,0	%	ISO 13468-1
Haze (t=2mm)	<1,2	%	ISO 14782
Refractive index (589nm, 25°C)	1,53	-	ISO 489

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