

TECHNICAL DATA SHEET

[English Units]



TOPAS[®] 6013M-07

Cyclic Olefin Copolymer (COC)

Grade for blow molding and injection molding with high heat resistance, high purity and improved processing behaviour.

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 (10°C/min)	288	°F	ISO 11357-1,-2,-3
DTUL @ 0.45 MPa	266	°F	ISO 75-1, -2
Optical Properties			
Deg. of light transmission	91,0	%	ISO 13468-2
Refractive index (589nm, 25°C)	1,53	-	ISO 489

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TOPAS Advanced Polymers GmbH | Am Prime Parc 9 | 65479 Raunheim | Germany
+49 (0) 1805-1-86727 (EU) | +1 248 479 8928 (USA) | +81 3 6711 8615 (Asia/Pacific) | www.topas.com