TECHNICAL DATA SHEET

[English Units]

TOPAS® 8007S-04

Cyclic Olefin Copolymer (COC)

1,53

Property	Value	Unit	Test Standard
Physical Properties			
Density	**1010**	kg/m³	ISO 1183
Melt volume rate (MVR) (260°C, 2.16kg)	**32**	cm³/10min	ISO 1133
Melt flow rate (MFR) (260°C, 2.16kg)	**29**	g/10min	calculated
Water absorption (23°C-sat)	**0,01**	%	ISO 62
Water vapor permeability @ 23°C, 85% RH	**0,06**	g×mil/100in²×day	DIN 53122
Mechanical Properties			
Tensile modulus (1mm/min)	**380**	Kpsi	ISO 527-2/1A
Tensile stress at yield (50mm/min)	**9100**	psi	ISO 527-2/1A
Tensile strain at yield (50mm/min)	**4,5**	%	ISO 527-2/1A
Charpy impact strength @ 23C	**9,5**	ft-lbs/in²	ISO 179/1eU
Charpy notched impact strength @ 23°C	**1,24**	ft-lbs/in²	ISO 179/1eA
Thermal Properties			
Glass transition temperature (10°C/min)	**172**	°F	ISO 11357-1,-2,-3
DTUL @ 0.45 MPa	**167**	°F	ISO 75-1, -2
Vicat softening temperature B50 (50°C/h 50N)	**176**	°F	ISO 306
Flammability @1.6mm nom. thickn.	**HB**	Class	UL94
Electrical Properties			
Comparative tracking index CTI	**>600**	-	IEC 60112
Optical Properties			
Deg. of light transmission (t=2mm)	**91**	%	ISO 13468-1
Haze (t=2mm)	**<1,2**	%	ISO 14782
Refractive index (589nm, 25°C)	**1,53**	-	ISO 489

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