TOPAS® 6013S-04

Cyclic Olefin Copolymer

Polyplastics Co., Ltd.

Message:

Standard Grade

General Information			
Features	Copolymer		
UL File Number	E177491		
Part Marking Code (ISO 11469)	>COC<		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.02	g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (260°C/2.16 kg)	14.0	cm³/10min	ISO 1133
Water Absorption (Saturation, 23°C)	0.010	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	2900	MPa	ISO 527-2/1A/1
Tensile Stress (Break)	63.0	MPa	ISO 527-2/1A/5
Tensile Strain (Break)	2.7	%	ISO 527-2/1A/5
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength	1.8	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength	15	kJ/m²	ISO 179/1eU
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature (0.45 MPa, Unannealed)	130	°C	ISO 75-2/B
Glass Transition Temperature [1]	138	°C	ISO 11357-2
Vicat Softening Temperature	137	°C	ISO 306/B50
Electrical	**Nominal Value**	**Unit**	**Test Method**
Volume Resistivity	> 1.0E+14	ohms·cm	IEC 60093
Relative Permittivity			IEC 60250
1 kHz	2.35		
10 kHz	2.35		
1.00 GHz	2.30		
Comparative Tracking Index	> 600	V	IEC 60112
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating	HB		UL 94
Optical	**Nominal Value**	**Unit**	**Test Method**
Refractive Index	1.530		ISO 489
Transmittance (2000 µm)	91.0	%	ISO 13468-1
NOTE			
1.	10°C/min		

Recommended distributors for this material

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