Polyplastics

TER Plastics POLYMER GROUP

TECHNICAL DATA SHEET

DURACON® TR-10D

Polyplastics

POM-MX10

Features Creep resistance, Low warpage

Processing/Physical Characteristics	Value	Unit	Standard
Melt volume-flow rate, MVR	31	cm³/10min	ISO 1133
Temperature	190	°C	
Load	2.16	kg	
Melt flow index, MFI	39	g/10min	ISO 1133
Temperature	190	°C	
Load	2.16	kg	
Molding shrinkage, parallel	1.8	%	ISO 294-4, 2577
Molding shrinkage, normal	1.8	%	ISO 294-4, 2577

Mechanical Properties	Value	Unit	Standard
Tensile modulus	3700	MPa	ISO 527
Tensile strength	57	MPa	ISO 527
Strain at break	5	%	ISO 527
Poisson's ratio	0.35		ISO 527
Flexural modulus, 23°C	3500	MPa	ISO 178
Flexural strength	90	MPa	ISO 178
Charpy notched impact strength, +23°C	3.3	kJ/m²	ISO 179/1eA
Rockwell hardness	M 90		ISO 2039-2
Tensile strength	55	MPa	ASTM D 638
Flexural modulus	3430	MPa	ASTM D 790
Flexural strength	93	MPa	ASTM D 790
Izod impact notched, 1/8 in	32.67	J/m	ASTM D 256

Thermal Properties	Value	Unit	Standard
Temp. of deflection under load, 1.80 MPa	112	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	90	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	90	E-6/K	ISO 11359-1/-2

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Thermal Properties	Value	Unit	Standard
Burning behav. at thickness h	HB	class	IEC 60695-11-10
Yellow card available	yes		
DTUL @ 264 psi	142	°C	ASTM D 648

Electrical Properties	Value	Unit	Standard
Volume resistivity	3E12	Ohm*m	IEC 62631-3-1
Surface resistivity	2E16	Ohm	IEC 62631-3-2

Other Properties	Value	Unit	Standard
Density	1480	kg/m³	ISO 1183
Density	1480	kg/m³	ASTM D 792