

TECHNICAL DATA SHEET

DURACON® TW-31

Polyplastics
(POM+PE)-MD15

Features

Low warpage, Tribologic grade

Processing/Physical Characteristics	Value	Unit	Standard
Melt volume-flow rate, MVR	5	cm ³ /10min	ISO 1133
Temperature	190	°C	
Load	2.16	kg	
Melt flow index, MFI	6	g/10min	ISO 1133
Temperature	190	°C	
Load	2.16	kg	
Molding shrinkage, parallel	2.1	%	ISO 294-4, 2577
Molding shrinkage, normal	1.9	%	ISO 294-4, 2577
Mechanical Properties	Value	Unit	Standard
Tensile modulus	3750	MPa	ISO 527
Tensile strength	47	MPa	ISO 527
Strain at break	10	%	ISO 527
Poisson's ratio	0.35		ISO 527
Flexural modulus, 23°C	3450	MPa	ISO 178
Flexural strength	81	MPa	ISO 178
Charpy notched impact strength, +23°C	3.3	kJ/m ²	ISO 179/1eA
Rockwell hardness	M 68		ISO 2039-2
Thermal Properties	Value	Unit	Standard
Temp. of deflection under load, 1.80 MPa	90	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	100	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	100	E-6/K	ISO 11359-1/-2
Burning behav. at thickness h	HB	class	IEC 60695-11-10
Yellow card available	yes		

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Other Properties	Value	Unit	Standard
Density	1470	kg/m ³	ISO 1183