

TECHNICAL DATA SHEET

DURACON® AW-01

Polyplastics
(POM+PE)

Processing

Injection molding

Additives

Lubricants

Features

Tribologic grade

Applications

General purpose

Processing/Physical Characteristics	Value	Unit	Standard
Melt volume-flow rate, MVR	8	cm ³ /10min	ISO 1133
Temperature	190	°C	
Load	2.16	kg	
Melt flow index, MFI	9	g/10min	ISO 1133
Temperature	190	°C	
Load	2.16	kg	
Molding shrinkage, parallel	2.3	%	ISO 294-4, 2577
Molding shrinkage, normal	2	%	ISO 294-4, 2577
Mechanical Properties	Value	Unit	Standard
Tensile modulus	2350	MPa	ISO 527
Tensile strength	54	MPa	ISO 527
Nominal strain at break	25	%	ISO 527
Poisson's ratio	0.35		ISO 527
Flexural modulus, 23°C	2200	MPa	ISO 178
Flexural strength	75	MPa	ISO 178
Charpy notched impact strength, +23°C	5.7	kJ/m ²	ISO 179/1eA
Rockwell hardness	M 70		ISO 2039-2
Thermal Properties	Value	Unit	Standard
Temp. of deflection under load, 1.80 MPa	80	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	130	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	130	E-6/K	ISO 11359-1/-2
Burning behav. at thickness h	HB	class	IEC 60695-11-10

DURACON® AW-01

Polyplastics

Thermal Properties	Value	Unit	Standard
Yellow card available	yes		

Electrical Properties	Value	Unit	Standard
Volume resistivity	3E12	Ohm*m	IEC 62631-3-1
Surface resistivity	3E14	Ohm	IEC 62631-3-2
Electric strength	20	kV/mm	IEC 60243-1

Other Properties	Value	Unit	Standard
Density	1370	kg/m ³	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Standard
Mold temperature	60	°C	
Zone 1	150	°C	
Zone 2	170	°C	
Zone 3	190	°C	

Diagrams

