

# ASTM Datasheet Makrolon DP1-1452

## Speciality grades / Medical devices

Developmental product; MFR 17 g/10 min; Medical devices; Low viscosity; Easy release; Injection molding; Available in transparent colors only

Property	Test Condition	Unit	Standard	Value
heological properties				
Melt flow rate	300 °C / 1.2 kg	g/(10 min)	ASTM D 1238	17
Mold shrinkage, flow/cross to flow		in/in	ASTM D 955	0.006-0.008
lechanical properties (23 °C/50 % r.h.)				
Tensile modulus	1 mm/min	lb/in²	ASTM D 638	330000
Tensile stress at yield	-	lb/in²	ASTM D 638	8700
Tensile elongation at yield	-	%	ASTM D 638	5.0
Tensile elongation at break	-	%	ASTM D 638	115
Tensile stress at break	-	lb/in²	ASTM D 638	9425
Flexural modulus	-	lb/in²	ASTM D 790	320000
hermal properties			·	
Thermal conductivity		Btu*in/(h*ft2*°F)	ASTM C 177	1.39
Specific heat		Btu/(lb⋅°F)	ASTM D 2766	0.28
lectrical properties (23 °C/50 % r.h.)				
Volume resistivity, Tinfoil electrodes		Ohm-m	ASTM D 257	1.0
ther properties (23 °C)				
Water absorption	73 °F; immersion to saturation	%	ASTM D 570	0.30
Water absorption	73 °F; immersion 24 h	%	ASTM D 570	0.12
Density		lb/in³	ASTM D 792	0.043
Specific volume		in3/lb	ASTM D 792	23.1
Specific gravity		-	ASTM D 792	1.2

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## Typical Properties

Property data is provided as general information only. Property values are approximate and are not part of the product specifications.

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