Makropol® A3 DF2.5 MF UV BRC0432 PC381 MSP

PC — Grupo Petropol Polímeros

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt flow index, MFI	**20**	g/10min	ISO 1133
Temperature	**300**	°C	-
Load	**1.2**	kg	-
Molding shrinkage, parallel	**0.5**	%	ISO 294-4, 2577
Molding shrinkage, normal	**0.7**	%	ISO 294-4, 2577

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	**2350**	MPa	ISO 527
Yield stress	**65**	MPa	ISO 527
Yield strain	**6.3**	%	ISO 527
Stress at break	**75**	MPa	ISO 527
Strain at break	**125**	%	ISO 527
Flexural modulus, 23°C	**2350**	MPa	ISO 178
Flexural strength	**96**	MPa	ISO 178
Charpy impact strength, +23°C	**N**	kJ/m²	ISO 179/1eU
Charpy impact strength, -30°C	**N**	kJ/m²	ISO 179/1eU
Charpy notched impact strength, +23°C	**80**	kJ/m²	ISO 179/1eA
Charpy notched impact strength, -30°C	**18**	kJ/m²	ISO 179/1eA
Izod notched impact strength, +23°C	**90**	kJ/m²	ISO 180/1A
Izod notched impact strength	**16**	kJ/m²	ISO 180/1A
Temperature	**-30**	°C	-

Thermal properties	Value	Unit	Test Standard
ISO Data			
Melting temperature, 10°C/min	**280**	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.80 MPa	**129**	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	**141**	°C	ISO 75-1/-2
Vicat softening temperature, B	**149**	°C	ISO 306
Coeff. of linear therm. expansion, parallel	**65**	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	**65**	E-6/K	ISO 11359-1/-2
Burning behav. at 1.5 mm nom. thickn.	**V-2**	class	IEC 60695-11-10
Thickness tested	**1.5**	mm	-
Burning behav. at thickness h	**V-2**	class	IEC 60695-11-10
Thickness tested	**0.8**	mm	-
Glow Wire Flammability Index (GWFI)	**850**	°C	IEC 60695-2-12
GWFI - thickness tested (1)	**1**	mm	-
Glow Wire Flammability Index (GWFI)	**850**	°C	IEC 60695-2-12
GWFI - thickness tested (2)	**1.5**	mm	-
Glow Wire Flammability Index (GWFI)	**850**	°C	IEC 60695-2-12
GWFI - thickness tested (3)	**2**	mm	-

Electrical properties	Value	Unit	Test Standard
Other Standards[S]			
Relative permittivity, 100Hz	**3.1**	-	IEC 60250
Relative permittivity, 1MHz	**3**	-	IEC 60250
Dissipation factor, 100Hz	**5**	E-4	IEC 60250
Dissipation factor, 1MHz	**85**	E-4	IEC 60250
Volume resistivity	**1E14**	Ohm*m	IEC 60093
Surface resistivity	**1E16**	Ohm	IEC 60093

S: These properties are reported by the producer according standards that are different to our defaults.

Other properties	Value	Unit	Test Standard
Water absorption	**0.3**	%	Sim. to ISO 62
Density	**1200**	kg/m³	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	**120**	°C	-
Pre-drying - Time	**4**	h	-
Melt temperature	**270 - 290**	°C	-
Mold temperature	**70 - 90**	°C	-

Characteristics

Processing
Injection Molding, Other Extrusion

Features
Light Diffusing

Delivery form
White

Applications
Electrical and Electronical

Special Characteristics
U.V. stabilized or stable to weather

Regional Availability
North America, Europe, South and Central America