Acrylic Polymer ACRYPET MD

PROPERTY	TEST METHOD	UNITS	VALUE
THERMAL			
Melt Flow Rate	ISO 1133 (230C,37.3N)	g/10min	6.0
Vicat Softening Point	ISO 306 (50N)	ºC	94
Heat Deflection Temperature	ISO 75 (1.8 MPa)	ºC	87
Specific Heat	JIS K7123	J/(g.°C)	1.5
Coefficient of Linear Expansion	ASTM D696	1/C	6×10^{-5}
Coefficient of Thermal Conductivity	ASTM C177	W/(mC)	0.2
Spiral Flow	MRC (2mm @ 230C)	mm	190
	MRC (2mm @ 250C)	mm	290
OPTICAL			
Total Light Transmission	ISO 13468 (3mm)	%	93
Haze	ISO 14782 (3mm)	%	0.3
Refractive Index	ASTM D542	-	1.49
MECHANICAL			
Tensile Strength	ISO 527 (1A/5)	MPa	71
Tensile Elongation	ISO 527 (1A/5)	%	6.0
Flexural Modulus	ISO 178	GPa	3.3
Flexural Strength	ISO 178	MPa	130
Charpy Impact Strength	ISO 179/1eA	kJ/m^2	1.4
	ISO 179/1eU	kJ/m^2	19
GENERAL			
Specific Gravity	ISO 1183	g/cm^3	1.19
Rockwell Hardness	ISO 2039-2	M Scale	94
Mould Shrinkage	MRC method	%	0.2 - 0.6
Water Absorption	ISO 62 (24hr)	%	0.30

The above data represents typical results obtained using standard test pieces, it should not form the basis of specifications. Information contained in this publication (and otherwise supplied to users) is based on our general experience and is given in good faith, but we are unable to guarantee its accuracy or to accept responsibility in respect of factors outside our knowledge or control. Freedom under patent, copyright and registered designs cannot be assumed.

Users of ACRYPET polymer should consult the relevant Material Safety Data Sheet.