



Acrypet IR D50

High-impact PMMA with good chemical resistance and improved mouldability

MAIN CHARACTERISTICS	TEST METHODS			UNITS	DATA (*)
	ASTM	DIN	ISO		
Rheology					
Melt flow rate MFR (230/3,8 Kg)	D-1238 (I)	53735	R1133	g/10 min.	2,5
Optical properties					
Refractive index	D-542	52491	R489	-	1,49
Total white light transmission	D-1003	5036		%	92
Haze				%	0,5
Mechanical properties					
Tensile strength	D-638	53455	R527	MPa	41
Flexural strength	D-790	53452	R178	MPa	57
Flexural modulus	D-790	53452	R178	GPa	1,8
Elongation	D-638			%	90
Izod impact strength	D-256			J/m	44
Rockwell hardness	D-785			M	50
Thermal properties					
Vicat softening temperature (9.8N)	D-1525	53460	R-306	°C	98
HDT (1.82Mpa)	D-648	53461	75-2	°C	83
Coefficient of linear expansion	D-696	53752A		1/°C	10X10 ⁻⁵
Coefficient of thermal conductivity	S-177			W/ (m°C)	0.2
Electrical properties					
Surface resistivity	D-527	53482		Ω	> 10 ¹⁶
Volume resistivity	D-527	53482		Ω/cm	> 10 ¹⁵
Dielectric strength	D-149	53581		MV/m	15
Dielectric constant 50Hz	D-150	53483			3.9
Dissipation factor, 1MHz	D-150	53483			0.04
Other properties					
Density	D-792	53479	R1183		1,16
Water absorption	D-570	53495	62	%	0.4
Mould shrinkage (48h)	D-955			%	0,4-0,8

The values quoted are the average of results obtained under laboratory conditions and are given only as an indication to enable customers to make use of our products. Prospective users should determine the suitability of materials before adopting them on a commercial scale.

Features

- Clear Transparent
- High Impact Resistant for Demanding Applications
- FDA Food Contact Approved
- Easy Processing

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