

ACRYL KR 2014/1

PMMA

Polycasa N.V.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	3.5	cm ³ /10min	ISO 1133
Temperature	230	°C	-
Load	3.8	kg	-
Mechanical properties			
ISO Data			
Tensile Modulus	1800	MPa	ISO 527
Stress at break	35	MPa	ISO 527
Strain at break	45	%	ISO 527
Charpy impact strength, +23°C	85	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	7	kJ/m ²	ISO 179/1eA
Ball indentation hardness	75	MPa	ISO 2039-1
Thermal properties			
ISO Data			
Temp. of deflection under load, 1.80 MPa	80	°C	ISO 75-1/-2
Vicat softening temperature, B	89	°C	ISO 306
Electrical properties			
ISO Data			
Relative permittivity, 100Hz	3.2	-	IEC 62631-2-1
Relative permittivity, 1MHz	2.9	-	IEC 62631-2-1
Dissipation factor, 100Hz	400	E-4	IEC 62631-2-1
Dissipation factor, 1MHz	300	E-4	IEC 62631-2-1
Volume resistivity	1E12	Ohm*m	IEC 62631-3-1
Surface resistivity	1E14	Ohm	IEC 62631-3-2
Electric strength	60	kV/mm	IEC 60243-1
Comparative tracking index	600	-	IEC 60112
Other properties			
Density	1140	kg/m ³	ISO 1183

Characteristics**Processing**

Injection Molding, Other Extrusion, Coating

Special Characteristics

High impact or impact modified, U.V. stabilized or stable to weather, Transparent

Features

Amorphous

Applications

Automotive, Building Construction, Electrical and Electronical, Medical

Regional Availability

Europe