POLYCASA® ACRYL KR 2007/1

Polymethyl Methacrylate Acrylic

Polycasa

Message:

Polycasa Acryl is the trade name for thermoplastic moulding compounds from Polycasa. Polycasa Acryl is a highly transparent, amorphous thermoplastic based on polymethylmethacrylate (PMMA), whilst Polycasa Acryl KR products are high-impact modified products with a range of melt viscosities. CHARACTERISTICS Available in many transparent and opaque shades. Excellent transparency and brilliance. Unsurpassed resistance to ageing. High surface hardness. Scratch resistance. Good recyclability. High optical quality. Glass-clear appearance. Good outdoor performance. Meets all current European food contact legislation and can be used in contact with foodstuffs. APPLICATIONS Automotive. Building. Lighting. Food. Signs. Electrical. Sanitary. Marine. Medical.

General Information	
Additive	Impact Modifier
Features	Amorphous
	Food Contact Acceptable
	Good Weather Resistance
	High Clarity
	High Hardness
	High Impact Resistance
	High Scratch Resistance
	Impact Modified
	Opticals
	Outstanding Surface Finish
	Recyclable Material
Uses	Automotive Applications
	Building Materials
	Construction Applications
	Electrical/Electronic Applications
	Lighting Applications

Marine Applications

Medical/Healthcare Applications

Non-specific Food Applications

Sanitary Products

Appearance Clear/Tansparent Colors Available Opaque Processing Method Bow Molding Extrusion Extrusion injection Molding Extrusion Projectad Mominal Value Multi Density 16 gram Distance Apparent Density 0.57 gram Bord March Molding information information Bord March Molding Strinkage 0.50 to 80 ref Iso 1133 Molding Strinkage Normal Value Iso 1140 Iso 1133 Molding Strinkage Normal Value March 105 to 52.7 Iso 1133 Tensie Strain (Break) So 20.7 Iso 1140 Iso 1147	Agency Ratings	EU Food Contact, Unspecified Ra	iting	
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Unannealed) 90.0 °C ISO 75-2/Af Vicat Softening Temperature 101 °C ISO 306/B50 CLTE - Flow (23 to 80°C) 1.0E-4 cm/cm/°C DIN 53752	Thermal	Nominal Value	Unit	Test Method
CLTE - Flow (23 to 80°C) 1.0E-4 cm/cm/°C DIN 53752		90.0	°C	ISO 75-2/Af
	Vicat Softening Temperature	101	°C	ISO 306/B50
Specific Heat 1500 J/kg/°C IEC 1006	CLTE - Flow (23 to 80°C)	1.0E-4	cm/cm/°C	DIN 53752
	Specific Heat	1500	J/kg/°C	IEC 1006

Thermal Conductivity	0.18	W/m/K	DIN 52612
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+14	ohms	IEC 60093
Volume Resistivity	1.0E+14	ohms·cm	IEC 60093
Electric Strength ¹	60	kV/mm	IEC 60243-1
Dielectric Constant			IEC 60250
100 Hz	3.20		
1 MHz	2.90		
Dissipation Factor			IEC 60250
100 Hz	0.040		
1 MHz	0.030		
Comparative Tracking Index (Solution B)	600	V	IEC 60112
Optical	Nominal Value	Unit	Test Method
Refractive Index	1.492		ISO 489
Transmittance (3000 µm)	90.0	%	DIN 5036-3
Haze	< 2.0	%	DIN 5036-3
Injection	Nominal Value	Unit	
Processing (Melt) Temp	210 to 250	°C	
Mold Temperature	50.0 to 70.0	°C	
Extrusion	Nominal Value	Unit	
Melt Temperature	180 to 250	°C	
NOTE			
NOTE			

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