

# Acrigel® ECL

Polymethyl Methacrylate Acrylic  
Unigel Plásticos

Message:

Natural PMMA in powder for compounding by extrusion molding.  
Low flow rate, good thermal resistance and good rate stiffness/impact.

General Information			
Features	Good Impact Resistance		
	Good Stiffness		
	Low Flow		
	Medium Heat Resistance		
Forms	Powder		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.19	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	2.3	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	96		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	72.0	MPa	ASTM D638
Tensile Elongation (Break)	4.0	%	ASTM D638
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm)	15	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.20 mm)	98.0	°C	ASTM D648
Vicat Softening Temperature			
--	102	°C	ASTM D1525 <sup>1</sup>
--	110	°C	ASTM D1525 <sup>2</sup>
Optical	Nominal Value	Unit	Test Method
Refractive Index	1.490		ASTM D542
Transmittance	92.0	%	ASTM D1003
NOTE			
1.	Rate A (50°C/h), Loading 2 (50 N)		
2.	Rate B (120°C/h), Loading 1 (10 N)		

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