

Acrigel® ECL500

Polymethyl Methacrylate Acrylic

Unigel Plásticos

Message:

Low flow rate and lubricated, high impact resistance, good thermal resistance and good balance stiffness/impact.
Main applications: automotive and public lighting, appliances and technical parts.

General Information			
Features	Good Stiffness		
	High Impact Resistance		
	Low Flow		
	Lubricated		
	Medium Heat Resistance		
Uses	Appliances		
	Automotive Applications		
	Engineered Applications		
	Lighting Fixtures		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	2.3	g/10 min	ASTM D1238, ISO 1133
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	80		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	45.0	MPa	ASTM D638, ISO 527-2
Tensile Elongation (Break)	18	%	ASTM D638, ISO 527-2
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm)	29	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, Unannealed, 3.20 mm	83.0	°C	ASTM D648
1.8 MPa, Unannealed	83.0	°C	ISO 75-2/A
Vicat Softening Temperature	107	°C	ISO 306/B50, ASTM D1525 1
Optical	Nominal Value	Unit	Test Method
Transmittance	91.0	%	ASTM D1003
NOTE			
1.	Rate A (50°C/h), Loading 2 (50 N)		

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