

Acrigel® ECP800

Polymethyl Methacrylate Acrylic

Unigel Plásticos

Message:

Low flow rate and high impact resistance

Applications:

Appliances

Technical parts.

General Information			
Features	High Impact Resistance		
	Low Flow		
Uses	Appliances		
	Engineered Applications		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.19	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	1.1	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.30 to 0.60	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	40		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	44.0	MPa	ASTM D638
Tensile Elongation (Break)	55	%	ASTM D638
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm)	60	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
Vicat Softening Temperature			
--	94.0	°C	ASTM D1525 ¹
--	102	°C	ASTM D1525 ²
Optical	Nominal Value	Unit	Test Method
Refractive Index	1.490		ASTM D542
Transmittance	91.0	%	ASTM D1003
Injection	Nominal Value	Unit	
Drying Temperature	85.0	°C	
Drying Time	4.0	hr	
Rear Temperature	230	°C	

Middle Temperature	250	°C
Front Temperature	250	°C
Nozzle Temperature	245	°C
Mold Temperature	60.0	°C

NOTE

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|----|------------------------------------|
| 1. | Rate A (50°C/h), Loading 2 (50 N) |
| 2. | Rate B (120°C/h), Loading 1 (10 N) |

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