

Acrigel® AFP

Polymethyl Methacrylate Acrylic
Unigel Plásticos

Message:

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

General Information			
Features	Good Impact Resistance		
	Good Stiffness		
	High Flow		
	Medium Heat Resistance		
Forms	Powder		
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)	14	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	93		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	66.0	MPa	ASTM D638
Tensile Elongation (Break)	3.0	%	ASTM D638
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm)	13	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.20 mm)	92.0	°C	ASTM D648
Vicat Softening Temperature			
--	92.0	°C	ASTM D1525 ¹
--	100	°C	ASTM D1525 ²
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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