

Unilex™ UP 9008

Polypropylene Impact Copolymer

United Polychem

Message:

Unilex™ UP 9008 is a Polypropylene Impact Copolymer (PP Impact Copolymer) material. It is available in North America for injection molding.

Important attributes of Unilex™ UP 9008 are:

Copolymer

Food Contact Acceptable

Heat Resistant

Impact Resistant

Typical applications include:

Food Contact Applications

Housings

General Information			
Features	Food Contact Acceptable		
	Good Heat Aging Resistance		
	High Impact Resistance		
	Impact Copolymer		
	Medium Flow		
Uses	Battery Cases		
	Non-specific Food Applications		
Agency Ratings	FDA 21 CFR 177.1520(c) 3.1a		
	FDA 21 CFR 177.1520(c) 3.2a		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.900	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	8.0	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield)	23.0	MPa	ASTM D638
Tensile Elongation ² (Yield)	7.0	%	ASTM D638
Flexural Modulus - 1% Secant			
-- ³	1000	MPa	ASTM D790A
-- ⁴	1150	MPa	ASTM D790B
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	130	J/m	ASTM D256A
Gardner Impact ⁵ (-29°C, 3.20 mm)	26.7	J	ASTM D3029
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load (0.45 MPa, Unannealed)	84.0	°C	ASTM D648
Injection	Nominal Value	Unit	
Processing (Melt) Temp	204 to 246	°C	
NOTE			
1.	50 mm/min		
2.	50 mm/min		
3.	1.3 mm/min		
4.	13 mm/min		
5.	Method G, Geometry GC		

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