# Plexiglas® Rnew® B522

### Polylactic Acid + PMMA

Altuglas International of Arkema Inc.

#### Message:

Plexiglas ® Rnew ® B522 is a sustainable, biobased acrylic alloy that has high transparency and impact resistance properties. It is an impact modified thermoplastic acrylic resin formulated for injection molding and extrusion applications. It also has outstanding chemical resistance and melt flow properties that are much higher than traditional impact acrylics, including Plexiglas ® DR®.

General Information	
Additive	Impact Modifier
Features	Good Chemical Resistance
	Impact Modified
	Renewable Resource Content
Agency Ratings	USDA BioPreferred© Certification
RoHS Compliance	RoHS Compliant
Appearance	Clear/Transparent
Forms	Pellets
Processing Method	Extrusion
	Injection Molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.19	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	3.9	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.20 to 0.60	%	ASTM D955
Water Absorption (24 hr)	0.30	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	77		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2340	MPa	ASTM D638
Tensile Strength (Break)	49.6	MPa	ASTM D638
Flexural Modulus	2200	MPa	ASTM D790
Flexural Strength (Yield)	70.3	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	43	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load <sup>1</sup> (0.45			
MPa, Annealed)	67.2	°C	ASTM D648
Vicat Softening Temperature	76.1	°C	ASTM D1525 <sup>2</sup>
Optical	Nominal Value	Unit	Test Method
Refractive Index <sup>3</sup>	1.480		ASTM D542

Transmittance (3180 μm)	86.0	%	ASTM D1003
Haze (3180 µm)	< 5.0	%	ASTM D1003
Additional Information	Nominal Value	Unit	Test Method
ASTM Classification	PMMA Unspecified		ASTM D788
Renewable Carbon Conent	35	%	ASTM D6866
NOTE			
1.	Annealing cycle: 4hrs @ 131°F		
2.	Rate A (50°C/h), Loading 1 (10 N)		
3.	ND @ 72°F		

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#### Recommended distributors for this material

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