Plexiglas® Rnew® B514

Polylactic Acid + PMMA

Altuglas International of Arkema Inc.

Message:

Plexiglas® Rnew® B514 is a sustainable, biobased acrylic alloy that has high transparency and chemical resistance properties. It is an impact modified thermoplastic acrylic resin formulated for injection molding and extrusion applications. It also has outstanding impact resistance and melt flow properties that are much higher than traditional impact acrylics, including Plexiglas® DR®.

General Information	
Additive	Impact Modifier
Features	High Clarity 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	1.16	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)	49		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	1590	MPa	ASTM D638
Tensile Strength (Yield)	35.9	MPa	ASTM D638
Flexural Modulus	1590	MPa	ASTM D790
Flexural Strength (Yield)	50.3	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (23°C)	110	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load [1] (0.45 MPa, Annealed)	67.8	°C	ASTM D648
Vicat Softening Temperature	77.8	°C	ASTM D1525 [2]
Optical	**Nominal Value**	**Unit**	**Test Method**
Refractive Index [3]	1.490		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 0231V1		ASTM D788
Renewable Carbon Conent	28	%	
NOTE			
1.	Annealing cycle: 4hrs @ 131°F		
2.	Rate A (50°C/h), Loading 1 (10 N)		
3.	ND @ 72°F		

Recommended distributors for this material

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