

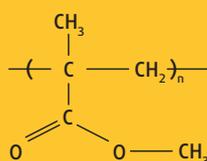
PLEXIGLAS® R-LIFE V825T ACRYLIC RESIN



PLEXIGLAS® R-LIFE V825T is a family of sustainably-advantaged injection grade acrylic resins with broad applicability in the automotive industry. The family of products are made with either chemically or mechanically recycled feedstocks (ISO 14021), to perfectly meet the challenges of each application.

MAIN PROPERTIES

PMMA
(POLYMETHYLMETHACRYLATE)



Outstanding optical properties

UV stability

Light weight

Colorability

While incorporating recycled content for a lower CO₂ footprint



TYPICAL CHARACTERISTICS

- Optical quality (high light-transmittance)
- Highest clarity, colorless: best solution for thick wall applications
- High weathering and UV resistance (no need for coating)
- Low weight (50% lighter than glass)
- Easy to process (injection molding, extrusion, etc.)
- The product has the potential to be recycled multiple times

AVAILABLE IN CLEAR, RED, BLACK

Suitable applications:

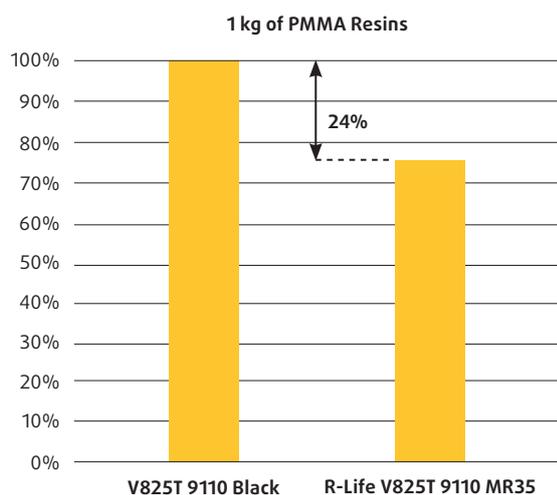
- Optical light guides
- Automotive lighting
- Instrument cluster covers
- Optical lenses
- Displays
- Interior and exterior trims
- Logos, emblems, etc.

TECHNICAL DATA SHEET

PLEXIGLAS® R-LIFE V825T MR35

Contains 35% pre-consumer recycled PMMA according to ISO 14021

CO₂ footprint: GWP reduction vs. ref*



*CO₂ reduction compared with equivalent fossil grade, manufactured under same process; more details about the data upon request and with an NDA

Properties

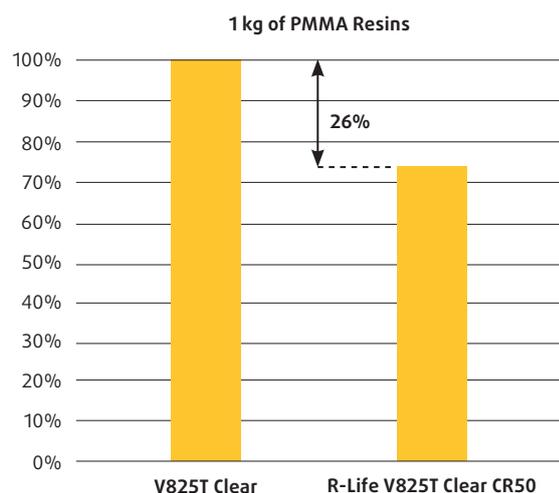
	Units	V825T 9110 Black	R-Life V825T 9110 Black MR35
Physical			
Density (ISO 1183)	g/cm ³	1.19	1.19
MFR 230°C/3.8 kg (ISO 1133)	g/10 min	2.8	2.4
Mechanical			
Tensile Stress at Break (ISO 527-2/5)	MPa	70	75
Tensile Strain at Break (ISO 527-2/5)	%	5	5
Flexural Modulus (ISO 178)	MPa	3300	3300
Rockwell Hardness M-Scale (ASTM D785)	-	97	97
Charpy Impact Strength Un. (ISO 179/1eU)	kJ/m ²	20	20
Thermal			
Vicat B50 (ISO 306)	°C	108	107
HDT 1.8 MPa, Annealed (ISO 75-2/A)	°C	100	100
Optical (3mm)			
Gloss 20°	UB	83	82
Gloss 60°	UB	87	87

TECHNICAL DATA SHEET

PLEXIGLAS® R-LIFE V825T CR50

Made with 50% of recycled MMA monomer obtained by depolymerization of pre- and post-consumer waste streams according to ISO 14021

CO₂ footprint: GWP reduction vs. ref*



*CO₂ reduction compared with equivalent fossil grade, manufactured under same process; more details about the data upon request and with an NDA

Properties

	Units	V825T Clear	R-Life V825T Clear CR50
Physical			
Density (ISO 1183)	g/cm ³	1.19	1.19
MFR 230°C/3.8 kg (ISO 1133)	g/10 min	3	3
Mechanical			
Tensile Stress at Break (ISO 527-2/5)	MPa	72	74
Tensile Strain at Break (ISO 527-2/5)	%	5	5
Flexural Modulus (ISO 178)	MPa	3300	3300
Rockwell Hardness M-Scale (ASTM D785)	-	97	97
Charpy Impact Strength Un. (ISO 179/1eU)	kJ/m ²	20	20
Thermal			
Vicat B50 (ISO 306)	°C	108	107
HDT 1.8 MPa, Annealed (ISO 75-2/A)	°C	100	100
Optical (3mm)			
Light Transmittance (ASTM D1003)	-	92	92
Haze (ASTM D1003)	-	0.5	0.5