



Optix® CA-82

Plaskolite, Inc. - Polymethyl Methacrylate Acrylic

Sunday, November 3, 2019

General Information

General

Material Status	• Commercial: Active		
Availability	• Europe	• North America	
Automotive Specifications	• CHRYSLER MS-DB-14 CPN1885 Color: UVT Clear	• CHRYSLER MS-DB-143 CPN1920 Color: RD-05 Clear	• CHRYSLER MS-DB-143 CPN2339 Color: Amber
	• CHRYSLER MS-DB-14 CPN1911 Color: Clear	• CHRYSLER MS-DB-143 CPN1921 Color: RD-05 Red	• CHRYSLER MS-DB-143 CPN3171 Color: Clear
	• CHRYSLER MS-DB-14 CPN1913 Color: YL-90 Amber	• CHRYSLER MS-DB-143 CPN1922 Color: YL-90 Amber	• GM GMP.PMMA.009
	• CHRYSLER MS-DB-143 CPN1920 Color: Clear	• CHRYSLER MS-DB-143 CPN1941 Color: RD-01 Red	• SAE J576

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Melt Mass-Flow Rate	2.5	g/10 min	ASTM D1238
Molding Shrinkage - Flow	2.0E-3 to 6.0E-3	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	440000	psi	ASTM D638
Tensile Strength	9800	psi	ASTM D638
Tensile Elongation (Break)	3.4	%	ASTM D638
Flexural Strength	17100	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	0.35	ft-lb/in	ASTM D256
Gardner Impact ² (0.125 in)	2.00	in-lb	ASTM D5420
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load 264 psi, Unannealed	204	°F	ASTM D648
Vicat Softening Temperature	216	°F	ASTM D1525
CLTE - Flow (-22 to 86°F)	3.3E-5	in/in/°F	ASTM D696

Notes

¹ Typical properties: these are not to be construed as specifications.

² Geometry GB