



Optix® MS-983

Plaskolite, Inc. - Polymethyl Methacrylate Acrylic

Sunday, November 3, 2019

General Information

General

Material Status	• Commercial: Active
Availability	• Europe • North America

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Melt Mass-Flow Rate	1.8	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	490000	psi	ASTM D638
Tensile Strength	10300	psi	ASTM D638
Tensile Elongation (Break)	4.2	%	ASTM D638
Flexural Modulus	490000	psi	ASTM D790
Flexural Strength	17000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	> 0.20	ft-lb/in	ASTM D256
Gardner Impact ² (0.125 in)	3.00	in-lb	ASTM D5420
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	95		ASTM D785
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load 264 psi, Unannealed	203	°F	ASTM D648
Vicat Softening Temperature	215	°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