Plexiglas® VSNA

Polymethyl Methacrylate Acrylic

Altuglas International of Arkema Inc.

Message:

Plexiglas® VSNA is a thermoplastic acrylic resin formulated for injection molding applications. This grade is the same as Plexiglas®VS but does not have additives such as mold release, toner or UV-stabilizer. It is characterized by its very high melt flow. Plexiglas® VSNA excellent optical properties allowing it to excel in applications requiring high quality surface appearance and/or precision optics. Plexiglas® VSNA is easy to process due to its exceptional thermal stability and excellent tool surface reproduction. It has excellent resistance to many chemicals including solutions of inorganic acids, alkalis and aliphatic hydrocarbons such as VM&P naphtha and heptane. Additionally, it is virtually unaffected by a wide range of commercial products including many beverages, foodstuffs, detergent solutions and cleaners.

General Information			
Features	BPA Free		
	Good Dimensional Stability		
	Good Thermal Stability		
	Good UV Resistance		
	Good Weather Resistance		
	High Clarity		
	High Flow		
	High Scratch Resistance		
	Low Shrinkage		
Uses	Bathroom Accessories		
	Household Goods		
RoHS Compliance	RoHS Compliant		
Appearance	Clear/Transparent		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.18	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	27	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)	84		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	2900	MPa	ASTM D638
Tensile Strength (Yield)	64.8	MPa	ASTM D638
Tensile Elongation (Break)	3.0	%	ASTM D638
Flexural Modulus	2960	MPa	ASTM D790
Flexural Strength (Yield)	96.5	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	16	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load [1]			ASTM D648
0.45 MPa, Annealed	80.6	°C	
1.8 MPa, Annealed	76.1	°C	
Vicat Softening Temperature			
--	87.2	°C	ASTM D1525 [2]
--	81.1	°C	ASTM D1525 [3]
Thermal Conductivity	0.19	W/m/K	ASTM C177
Flammability	**Nominal Value**		**Test Method**
Flame Rating	HB		UL 94
Optical	**Nominal Value**	**Unit**	**Test Method**
Refractive Index [4]	1.490		ASTM D542
Transmittance (3180 µm)	92.0	%	ASTM D1003
Haze (3180 µm)	< 1.0	%	ASTM D1003
Additional Information	**Nominal Value**		**Test Method**
ASTM Classification	PMMA 0111V7		ASTM D788
NOTE			
1.	Annealing cycle: 4hrs @ 158°F		
2.	Rate A (50°C/h), Loading 1 (10 N)		
3.	Rate A (50°C/h), Loading 2 (50 N)		
4.	ND @ 72°F		

Recommended distributors for this material

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