

Westlake PVC SP-6340

Westlake Chemical Corporation - Rigid Polyvinyl Chloride

Friday, September 20, 2019

General Information

Product Description

SP-6340 is a rigid injection molding PVC compound for interior fittings and parts of similar configuration where maximum burst strength is required. SP-6340 is ideally suited for large diameter fittings. SP-6340 is listed with NSF under Standard 14, and meets Standard 61 health effects requirements.

General

Material Status	• Commercial: Active		
Availability	• North America		
Features	• High Rigidity		
Uses	• Fittings		
Agency Ratings	• ASTM D1784	• NSF STD-14	• NSF STD-61
Processing Method	• Injection Molding		

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.34 to 1.38	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.20 to 0.40	%	ASTM D955
PVC Cell Classification	12454-B		ASTM D1784
Flow Ratio ² (199 to 204°C)	150		Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2900	MPa	ASTM D638
Tensile Strength (Yield)	51.7	MPa	ASTM D638
Flexural Modulus	3100	MPa	ASTM D790
Flexural Strength	75.8	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-20°C, 3.18 mm	37	J/m	
23°C, 3.18 mm	75	J/m	
Drop Impact Resistance ³ (23°C)	114	J/cm	ASTM D4226
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	105		ASTM D785
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	74.0	°C	
Deflection Temperature Under Load			ASTM D648
1.8 MPa, Unannealed	70.0	°C	
Flammability	Nominal Value	Unit	Test Method
Oxygen Index	38	%	ASTM D2863

Notes

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

² Distance/Wall Thickness

³ Procedure A, C 1/2" R Tup