



Westlake PVC 7045

Westlake Chemical Corporation - Rigid Polyvinyl Chloride

Friday, September 20, 2019

General Information

Product Description

7045 is a special-purpose rigid extrusion PVC compound for interior applications. This compound is designed for applications requiring colorability, dimensional stability, impact strength & toughness, flame retardant, chemical resistance, and durability.

General

Material Status	• Commercial: Active
Availability	• North America
Features	<ul style="list-style-type: none"> • Chemical Resistant • Durable • Flame Retardant <ul style="list-style-type: none"> • Good Colorability • Good Dimensional Stability • Good Impact Resistance <ul style="list-style-type: none"> • Good Toughness • High Rigidity
Agency Ratings	• NSF STD-51
Processing Method	• Extrusion

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.31 to 1.35	g/cm ³	ASTM D792
PVC Cell Classification	14423333		ASTM D4216
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2760	MPa	ASTM D638
Tensile Strength (Yield)	44.8	MPa	ASTM D638
Flexural Modulus	2760	MPa	ASTM D790
Flexural Strength	86.2	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	1100	J/m	ASTM D256
Tensile Impact Strength	158	kJ/m ²	ASTM D1822
Drop Impact Resistance ² (23°C)	147	J/cm	ASTM D4226
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	108		ASTM D785
Durometer Hardness (Shore D, 10 sec)	76 to 82		ASTM D2240
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load 1.8 MPa, Unannealed	72.0	°C	ASTM D648
Melting Temperature	182	°C	
Flammability	Nominal Value	Unit	Test Method
Flame Rating	V-0		UL 94

Additional Information

Flammability Classification, ASTM D635: SE

Notes

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

² Procedure A, 1/2" R Tup