Westlake PVC HR-5009

Westlake Global Compounds - Rigid Polyvinyl Chloride

Monday, September 30, 2024

General Information

Product Description

This rigid, non-phthalate compound is formulated to provide excellent high-flow properties for a variety of custom injection molding, pipe, and fitting applications. This fitting-grade compound is commonly used in large part, sprue/runner, and multi-cavity mold applications that require NSF 14/50/51/61 certifications. This compound possesses excellent regrind stability, color hold, and surface appearance.

General			
Material Status	• Commercial: Active		
Availability	• Asia Pacific	• Europe	• North America
Features	• Good Rigidity • High Flow	• Pleasing Surface Appearance • Regrind and Blending Performance	
Uses	• Fittings		
Agency Ratings	• NSF STD-14 • NSF STD-50	• NSF STD-51 • NSF STD-61	
RoHS Compliance	• RoHS Compliant		
Processing Method	• Injection Molding		

ASTM & ISO Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.37 to 1.41	g/cm³	ASTM D792
Molding Shrinkage - Flow	0.20 to 0.30	%	ASTM D955
Flow Ratio [2] (199 to 204°C)	170		Internal Method
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	2830	MPa	ASTM D638
Tensile Strength (Yield)	50.3	MPa	ASTM D638
Flexural Modulus	2900	MPa	ASTM D790
Flexural Strength	89.6	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	59	J/m	
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	75.0	°C	
Deflection Temperature Under Load			ASTM D648
1.8 MPa, Unannealed	71.0	°C	
Flammability	**Nominal Value**	**Unit**	
Oxygen Index	38	%	

Notes

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

[2] Distance/Wall Thickness

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