

Westlake Chemical Corporation - Rigid Polyvinyl Chloride

Friday, September 20, 2019

General Information

Product Description

LR-5009 is an economical, high-flow rigid injection molding PVC compound for interior fittings. This compound is designed for multi-cavity molds and large diameter fittings. This compound is characterized by excellent process ability, which includes color hold, regrind stability, and surface appearance. LR-5009 is listed under NSF Standard 14 and Standard 61 for both potable water and DWV applications.

General			
Material Status	Commercial: Active		
Availability	 North America 		
Features	 Good Color Stability 	 Good Surface Finish 	High Rigidity
	 Good Processability 	High Flow	
Uses	Fittings	 Potable Water Applications 	
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	1.37 to 1.41	g/cm ³	ASTM D792		
Molding Shrinkage - Flow	0.20 to 0.30	%	ASTM D955		
PVC Cell Classification	12454		ASTM D1784		
Flow Ratio ² (199 to 204°C)	170		Internal Method		
Mechanical	Nominal Value	Unit	Test Method		
Tensile Modulus	2960	MPa	ASTM D638		
Tensile Strength (Yield)	50.5	MPa	ASTM D638		
Flexural Modulus	2980	MPa	ASTM D790		
Flexural Strength	88.3	MPa	ASTM D790		
Impact	Nominal Value	Unit	Test Method		
Notched Izod Impact (23°C, 3.18 mm)	59	J/m	ASTM D256		
Drop Impact Resistance ³ (23°C)	26.7	J/cm	ASTM D4226		
Hardness	Nominal Value	Unit	Test Method		
Rockwell Hardness (R-Scale)	117		ASTM D785		
Thermal	Nominal Value	Unit	Test Method		
Deflection Temperature Under Load			ASTM D648		
0.45 MPa, Unannealed	76.0	°C			
Deflection Temperature Under Load			ASTM D648		
1.8 MPa, Unannealed	72.0	°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



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