

Manner Flexible PVC X3735 BLK580

Manner Polymers - Flexible Polyvinyl Chloride

General Information

Product Description

Recommended Applications: Non-Lead Heat Stabilized flame retardant 125°C Tubing Extrusion Compound. Applications: Designed to meet Ford Global Spec ES-2U5A-1A263-AA Type C. This compound is RoHS compliant.

General

Material Status	• Commercial: Active
Availability	• North America
Additive	• Flame Retardant • Heat Stabilizer
Features	• Flame Retardant • Heat Stabilized • Low (to None) Lead Content
Uses	• Automotive Applications • Tubing
Appearance	• Black
Processing Method	• Extrusion

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.25 to 1.29		ASTM D792
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ²	3000	psi	ASTM D638
Tensile Elongation ² (Break)	400	%	ASTM D638
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 15 sec)	78 to 84		ASTM D2240
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-54.4	°F	ASTM D746
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air ³			UL 1581
284°F, 400 hr	7.0	%	
302°F, 240 hr	2.0	%	
Change in Ultimate Elongation in Air ³			UL 1581
284°F, 400 hr	-3.0	%	
302°F, 240 hr	-4.0	%	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+16	ohms·cm	ASTM D257

Processing Information

Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	338 to 374	°F
Cylinder Zone 3 Temp.	338 to 374	°F
Cylinder Zone 5 Temp.	338 to 374	°F

Notes

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

² Unaged Dumbbells: .03 inch

³ Air Retention: .03 inch

