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TEKNOR APEX

APEX® 82-E254-K

Teknor Apex Company - Flexible Polyvinyl Chloride

General Information

General			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Flame Retardant		
Uses	• Communication Wire Jacketing		
Wire Types	• FT-4	• MPR	
Agency Ratings	• NEC Article 725 • NEC Article 760 • NEC Article 800	• NEC Article 820 • UL 13 • UL 1424	• UL 444
RoHS Compliance	• RoHS Compliant		
Appearance	• Opaque		
Forms	• Pellets		
Processing Method	• Extrusion		

ASTM & ISO Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.42		ASTM D792
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (100% Strain)	1800	psi	ASTM D638
Tensile Strength (Break)	2400	psi	ASTM D638
Tensile Elongation (Break)	300	%	ASTM D638
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tear Strength [2]	543	lbf/in	ASTM D624
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore A, 15 sec)	90		ASTM D2240
Thermal	**Nominal Value**	**Unit**	**Test Method**
Continuous Use Temperature	176	°F	ASTM D794
Brittleness Temperature	-14.8	°F	ASTM D746
Flammability	**Nominal Value**	**Unit**	**Test Method**
Oxygen Index	33	%	ASTM D2863

Additional Information

Subject 444
Temperature Rating: 80 °C
UL Sunlight Resistance Recognition: No
Ultimate Elongation Retained, UL 1581, Oven Aged, 10 days, 100°C: 83 %
Tensile Strength Retained, UL 1581, Oven Aged, 10 days, 100°C: 101 %

Processing Information

Extrusion	Nominal Value	Unit
Melt Temperature	375	°F

Notes

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

[2] Die B