



APEX® RM 40054 P54

Teknor Apex Company - Rigid Polyvinyl Chloride

General Information

General

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Latin America • Asia Pacific • North America
Features	• Flame Retardant
Uses	• Connectors • Fittings • Electrical/Electronic Applications • Valves/Valve Parts
Agency Ratings	• UL f1 • UL QMFZ2
Regulatory Statement	• Due to the frequent updates to regulations, specifically, California Proposition 65, EU REACH SVHCs, and RoHS, please contact Teknor Apex for the most up to date compliance statement, or refer to section 15 of the product SDS.
Forms	• Pellets
Processing Method	• Injection Molding

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.33		ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/21.6 kg)	9.6	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	397000	psi	ASTM D638
Tensile Strength ² (Yield)	6390	psi	ASTM D638
Tensile Strength (Break)	6280	psi	ASTM D638
Tensile Elongation (Yield)	130	%	ASTM D638
Tensile Elongation (Break)	120	%	ASTM D638
Flexural Modulus	400000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F, 0.125 in)	25	ft-lb/in	ASTM D256
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, 10 sec, Hand Held)	78		ASTM D2240
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load 264 psi, Unannealed	160	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Annealed)	167	°F	ASTM D648
RTI Elec			UL 746B
0.027 in	122	°F	
0.06 in	122	°F	
0.08 in	122	°F	
0.12 in	122	°F	
0.19 in	122	°F	
0.24 in	122	°F	

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Thermal		Nominal Value	Unit	Test Method
RTI Imp				UL 746B
0.027 in		122	°F	
0.06 in		122	°F	
0.08 in		122	°F	
0.12 in		122	°F	
0.19 in		122	°F	
0.24 in		122	°F	
RTI Str				UL 746B
0.027 in		122	°F	
0.06 in		122	°F	
0.08 in		122	°F	
0.12 in		122	°F	
0.19 in		122	°F	
0.24 in		122	°F	
Electrical		Nominal Value	Unit	Test Method
Comparative Tracking Index (CTI) (0.0268 in)		PLC 0		UL 746A
High Amp Arc Ignition (HAI)				UL 746A
0.06 in		PLC 2		
0.08 in		PLC 1		
0.12 in		PLC 1		
0.19 in		PLC 1		
0.24 in		PLC 1		
High Voltage Arc Tracking Rate (HVTR) (0.0268 in)		0.157	in/min	UL 746A
Hot-wire Ignition (HWI)				UL 746A
0.06 in		PLC 2		
0.08 in		PLC 1		
0.12 in		PLC 1		
0.19 in		PLC 1		
0.24 in		PLC 1		
Flammability		Nominal Value	Unit	Test Method
Flame Rating				UL 94
0.0027 in	•	V-0		
	•	5VB		
0.06 in	•	V-0		
	•	5VB		
0.08 in	•	V-0		
	•	5VA		
0.12 in	•	V-0		
	•	5VA		
0.19 in	•	V-0		
	•	5VA		
0.24 in	•	V-0		
	•	5VA		
Additional Information		Nominal Value	Unit	Test Method
Weatherability		f1		UL 746C

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Suitable for outdoor use with respect to exposure to Ultraviolet Light, Water Exposure and Immersion in accordance with UL 746C - All Colors

Data Sheet Applies to Color Listed Below:
Natural (1138653)

7/20-lc

Notes

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

² 0.20 in/min
