

PermaFlex® 50

Thermoplastic Elastomer

RAUH Polymers, Inc.

Message:

PermaFlex® 50 is a Thermoplastic Elastomer (TPE) product. It is available in North America.

Characteristics include:

Flame Rated

Chemical Resistant

Good Tear Strength

Hydrolytically Stable

Wear Resistant

General Information			
Features	Good Abrasion Resistance		
	Good Chemical Resistance		
	Good Compressive Strength		
	Good Tear Strength		
	Hydrolytically Stable		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.24	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (240°C/2.16 kg)	65	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.50 to 0.60	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	55		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹			ASTM D638
Break, -40°C	48.3	MPa	
Break, 23°C	48.3	MPa	
Tensile Elongation ²			ASTM D638
Break, -40°C	900	%	
Break, 23°C	900	%	
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-40°C	No Break		
23°C	No Break		
Instrumented Dart Impact	36.2	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	202	°C	ASTM D1525 ³
Melting Temperature	210	°C	
Flammability	Nominal Value		Test Method

Flame Rating (1.60 mm)	HB	UL 94
NOTE		
1.	Type I	
2.	Type I	
3.	Rate A (50°C/h)	

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