

Ethavin™ C85FRNC

Thermoplastic Polyolefin Elastomer

Vi-Chem Corporation

Message:

Ethavin™ C85FRNC is a Thermoplastic Polyolefin Elastomer (TPO (POE)) material. It is available in North America for extrusion.

Important attributes of Ethavin™ C85FRNC are:

Chemical Resistant

Flame Retardant

Good Flexibility

Wear Resistant

Typical applications include:

Automotive

Wire & Cable

General Information			
Features	Flame Retardant		
	Gasoline Resistance		
	Good Abrasion Resistance		
	Low Temperature Flexibility		
	Oil Resistant		
Uses	Automotive Under the Hood		
	Cable Jacketing		
Forms	Pellets		
Processing Method	Extrusion		
Hardness	Nominal Value		Test Method
Durometer Hardness			ASTM D2240
Shore A ¹	85		
Shore A ²	84		
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ³	12.9	MPa	ASTM D638
Tensile Elongation			ASTM D638
Break ⁴	540	%	
Break ⁵	420	%	
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air			ASTM D573
100°C, 70 hr ⁶	< -2.4	%	
100°C, 70 hr ⁷	< 0.20	%	
Change in Ultimate Elongation in Air			ASTM D573
100°C, 70 hr ⁸	-9.2	%	
100°C, 70 hr ⁹	< 2.4	%	
Change in Volume			ASTM D471

100°C, 70 hr, in Water ¹⁰	0.60	%
100°C, 70 hr, in Water ¹¹	4.5	%
Change in Hardness		
100°C ¹²	-5 pts	
100°C ¹³	-3 pts	
100°C ¹⁴	-2 pts	
100°C ¹⁵	-1 pts	
Cold Flexibility		
-40°C ¹⁶	Pass	
-40°C ¹⁷	Pass	
Flammability		FMVSS 302
-- ¹⁸	DNI	
-- ¹⁹	DNI	
Ozone Resistance		
-- ²⁰	Pass	
-- ²¹	Pass	
NOTE		
1.	Straps	
2.	Plaques	
3.	Straps	
4.	Straps	
5.	Plaques	
6.	Straps	
7.	Plaques	
8.	Straps	
9.	Plaques	
10.	Straps	
11.	Plaques	
12.	Shore A, Heat ageing, 70 hrs, Straps	
13.	Shore A, Heat ageing, 70 hrs, Plaques	
14.	Shore A, Fluid Resistance, Water, 70 hrs, Straps	
15.	Shore A, Fluid Resistance, Water, 70 hrs, Plaques	
16.	Plaques, 4 hrs, Mandres 10 x O.D. of Sample	
17.	Straps, 4 hrs, Mandres 10 x O.D. of Sample	
18.	Plaques	
19.	Straps	
20.	Plaques	
21.	Straps	

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