

# Maxxam™ FR WC-P85 NHFR RoHS Natural

Polyolefin

PolyOne Corporation

## Message:

Maxxam™ HFFR WC-P85 RoHS Natural is a halogen-free flame retardant polyolefin compound characterized by low smoke, low flame spread, excellent spring-back, no plate-out and high extrusion line speed. It is designed for very thin-wall (0.5 mm or 20 mills), flexible, primary conduit applications for optical fiber cables among others. It is also excellent for injection molding.

General Information			
Features	Flame Retardant		
	Good Chemical Resistance		
	Good Colorability		
	Good Processability		
	Halogen Free		
	Low Smoke Emission		
	Low Toxicity		
Uses	Conduit		
	Corrugated Pipe		
	Wire & Cable Applications		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Processing Method	Extrusion		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.12	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	7.5	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore D	48		
Shore D, 10 sec	43		
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup> (Break)	8.96	MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Break)	450	%	ASTM D638
Flexural Modulus <sup>3</sup>	296	MPa	ASTM D790
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.55 mm, molded specimen)	V-0		UL 94
Oxygen Index	> 33	%	ASTM D2863

## NOTE

1.	51 mm/min
2.	51 mm/min
3.	13 mm/min

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