Maxxam™ FR WC-P85 NHFR RoHS Natural

Polyolefin

Key Characteristics

Product Description			
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 mils), flexible, primary conduit applications for optical fiber cables among others. It is also excellent for injection molding.			
General			
Material Status	• Commercial: Active		
Regional Availability	• North America		
Features	• Chemical Resistant • Flame Retardant • 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	

Technical Properties [1]

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	1.12	1.12	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	7.5 g/10 min	7.5 g/10 min	ASTM D1238
Mechanical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Strength [2] (Break)	1300 psi	8.96 MPa	ASTM D638
Tensile Elongation [2] (Break)	450 %	450 %	ASTM D638
Flexural Modulus [3]	43000 psi	296 MPa	ASTM D790
Hardness	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Durometer Hardness			ASTM D2240
Shore D	48	48	
Shore D, 10 sec	43	43	
Flammability	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Flame Rating			UL 94
0.06 in (1.6 mm), molded specimen	V-0	V-0	
Oxygen Index	> 33 %	> 33 %	ASTM D2863

Notes

[1] Typical values are not to be construed as specifications.

[2] 2.0 in/min (51 mm/min)

[3] 0.50 in/min (13 mm/min)