

Solvay Specialty Polymers Cogegum[®] AFR/920-UV Polyolefin

Category : Polymer , Thermoplastic , Polyolefin

Material Notes:

Flame Retardant; Good UV Resistance; Halogen Free; Low Smoke Emission; Low Toxicity; Self Extinguishing
 Uses: Cable Jacketing; Low Voltage Insulation; Wire & Cable Applications
 Extrusion equipment: standard extruders for thermoplastics equipped with low compression screw (1:1.2-1.4 compression ratio and 20-25 L/D ratio are suggested), and an adequate barrel thermoregulation.
 Additional Properties:
 Bending Test - IEC 60811 (-25[°]C): Pass; Calorific Potential - ISO 1716 18.0 MJ/kg; Cold Impact - IEC 60811 (-25[°]C): Pass; Collar Temperature - 170 to 180 [°]C; Corrosive Gas in Smoke - IEC 60754-2 < 10.0 μ S/mm; Corrosive Gas in Smoke - IEC 60754-2 > 4.30; Halogenidric Acid Emissions - IEC 60754-1 < 0.10 %; Head Temperature - 180 to 190 [°]C; Heat Shock - IEC 60811 (150[°]C): Pass; Hot Pressure Test - IEC 60811 (90[°]C): < 50 %; Insulation Resistance Constant - IEC 60502 (20[°]C): 3000 Mohm \cdot km; Insulation Resistance Constant - IEC 60502 (70[°]C): 200 Mohm \cdot km; Temperature Index (Burning) - NES 715 280 [°]C; Water Absorption - IEC 60811 (100[°]C): 1.00 mg/cm²
 Information provided by Solvay Specialty Polymers.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Cogegum-AFR920-UV-Polyolefin.php

| Physical Properties | Metric | English | Comments |
|---------------------------------------|--|--|--|
| Density | 1.43 g/cc | 0.0517 lb/in ³ | ASTM D792 |
| Environmental Stress Crack Resistance | >= 1000 hour @Thickness 3.00 mm, Temperature 50.0 [°] C | >= 1000 hour @Thickness 0.118 in, Temperature 122 [°] F | Condition A, Compression Molded, 10% Igepal; ASTM D1693 |
| Melt Flow | 18 g/10 min @Load 21.6 kg, Temperature 190 [°] C | 18 g/10 min @Load 47.6 lb, Temperature 374 [°] F | ASTM D1238 |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|----------|----------|-----------|
| Hardness, Shore D | 50 | 50 | ISO 868 |
| Tensile Strength at Break | 14.5 MPa | 2100 psi | ASTM D638 |
| Elongation at Break | 190 % | 190 % | ASTM D638 |

| Thermal Properties | Metric | English | Comments |
|--------------------|--------|---------|------------|
| Oxygen Index | 37 % | 37 % | ASTM D2863 |

| Electrical Properties | Metric | English | Comments |
|-----------------------|--|--|-----------|
| Volume Resistivity | 5.40e+13 ohm-cm @Temperature 70.0 [°] C | 5.40e+13 ohm-cm @Temperature 158 [°] F | ASTM D257 |

| Electrical Properties | 8.10e+14 ohm-cm Metric | 8.10e+14 ohm-cm English | Comments ASTM D257 |
|-----------------------|---------------------------|----------------------------|-----------------------|
| | @Temperature 20.0 Â°C | @Temperature 68.0 Â°F | |

| Processing Properties | Metric | English | Comments |
|-------------------------|---------------|---------------|----------|
| Zone 1 | 130 - 150 Â°C | 266 - 302 Â°F | |
| Zone 2 | 150 - 170 Â°C | 302 - 338 Â°F | |
| Zone 3 | 160 - 180 Â°C | 320 - 356 Â°F | |
| Zone 4 | 170 - 180 Â°C | 338 - 356 Â°F | |
| Die Cooling Temperature | 180 - 200 Â°C | 356 - 392 Â°F | |

| Descriptive Properties | Value | Comments |
|------------------------|----------------|----------|
| Availability | Asia Pacific | |
| | Europe | |
| | North America | |
| RoHS Compliance | RoHS Compliant | |

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China