

3M Dyneon™ THV 220A Fluorothermoplastic (discontinued **)

Category : Polymer , Thermoplastic , Fluoropolymer

Material Notes:

THV 220A is a flexible, transparent fluoroplastic composed of tetrafluoroethylene, hexafluoropropylene, and vinylidene fluoride in the form of agglomerate. It is soluble in ketones, esters, or ethers and can be used to prepare solutions to coat a range of substrates to provide surfaces with good weatherability and anti-soiling properties. This agglomerate form can also be used for compounding. The THV 200, 300, 400, 500 and 600 series process at relatively low temperatures compared to other fluoroplastic and may not require the same level of corrosion resistant equipment as that used with higher melting fluoroplastic. Information provided by Dyneon, A 3M Company

Order this product through the following link:

http://www.lookpolymers.com/polymer_3M-Dyneon-THV-220A-Fluorothermoplastic-nbspdiscontinued-.php

| Physical Properties | Metric | English | Comments |
|------------------------|--------------------------------------|--------------------------------------|------------|
| Specific Gravity | 1.95 g/cc | 1.95 g/cc | ASTM D792 |
| Melt Index of Compound | 20 g/10 min | 20 g/10 min | ASTM D1238 |
| | @Load 5.00 kg, Temperature 265 °C | @Load 11.0 lb, Temperature 509 °F | |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|------------|----------|-----------|
| Tensile Strength at Break | 20.0 MPa | 2900 psi | ASTM D638 |
| Elongation at Break | 600 % | 600 % | ASTM D638 |
| Flexural Modulus | 0.0800 GPa | 11.6 ksi | ASTM D790 |

| Thermal Properties | Metric | English | Comments |
|--------------------|--------|---------|------------|
| Melting Point | 120 °C | 248 °F | ASTM D4591 |

| Optical Properties | Metric | English | Comments |
|-----------------------|--------|---------|---------------------------------------|
| Transmission, Visible | 90 % | 90 % | transparent; thickness not quantified |

| Descriptive Properties | Value | Comments |
|------------------------|-------------|----------|
| Form | Agglomerate | |

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