

## 3M Dyneon™ TR 1105 PTFE (discontinued \*\*)

Category : Polymer , Thermoplastic , Fluoropolymer , PTFE

### Material Notes:

Ideal for thin wall ram extrusion products  
 Reduces cold flow and melt viscosity  
 Lower permeability  
 Lower porosity  
 Weldable  
 Excellent product smoothness  
 Increased machine output  
 Information provided by Dyneon, A 3M Company

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_3M-Dyneon-TR-1105-PTFE-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_3M-Dyneon-TR-1105-PTFE-nbspdiscontinued-.php)

Physical Properties	Metric	English	Comments
Bulk Density	0.820 g/cc	0.0296 lb/in <sup>3</sup>	ASTM D4894
Density	2.16 g/cc	0.0780 lb/in <sup>3</sup>	ASTM D4894
Particle Size	800 µm	800 µm	average; ASTM D4894
Deformation	2.0 %	2.0 %	ASTM D621
	@Pressure 15.00 MPa	@Pressure 2175 psi	
Deformation	4.0 %	4.0 %	ASTM D621
	@Time 86400 sec, Pressure 15.00 MPa	@Time 24.0 hour, Pressure 2175 psi	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	62	62	Initial; ASTM D2240
	58	58	
	@Time 15.0 sec	@Time 0.00417 hour	ASTM D2240
Tensile Strength at Break	27.6 MPa	4000 psi	ASTM D4894
Elongation at Break	400 %	400 %	ASTM D4894
Tensile Modulus	0.6498 GPa	94.25 ksi	ASTM D638

Thermal Properties	Metric	English	Comments
CTE, linear	112 µm/m-°C	62.0 µin/in-°F	ASTM E831
	@Temperature 30.0 - 100 °C	@Temperature 86.0 - 212 °F	
	146 µm/m-°C	81.0 µin/in-°F	ASTM E831
	@Temperature 100 - 200 °C	@Temperature 212 - 392 °F	ASTM E831
	178 µm/m-°C	99.0 µin/in-°F	ASTM E831

Thermal Properties	@Temperature 200 - 300 °C Metric	@Temperature 392 - 572 °F English	Comments
Thermal Conductivity	0.230 W/m-K @Temperature 100 °C	1.60 BTU-in/hr-ft <sup>2</sup> -°F @Temperature 212 °F	ASTM E1530
	0.240 W/m-K @Temperature 250 °C	1.67 BTU-in/hr-ft <sup>2</sup> -°F @Temperature 482 °F	ASTM E1530
Shrinkage	5.5 %	5.5 %	ASTM D4994

Electrical Properties	Metric	English	Comments
Dielectric Strength	3.70 kV/mm	94.0 kV/in	ASTM D149

Descriptive Properties	Value	Comments
Powder Flow Properties	Very good	

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

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