

## Huntsman IROGRAN® A 85 P 4854 Ether-Based TPU-For Cable Industry

Category : Polymer , Thermoplastic , Elastomer, TPE , Polyurethane TPE , Polyurethane, TP , Thermoplastic Polyurethane, Elastomer, Ether Grade

### Material Notes:

Introduction: IROGRAN A 85 P 4854 is a flame-retardant, halogen-free polyether based thermoplastic polyurethane intended for extrusion and injection molding applications. IROGRAN A 85 P 4854 is part of the HUNTSMAN technical extrusion product range and offers a specially designed, flexible material with a broad processing window particularly suitable for the preparation of cable jacketing where enhanced fire retardancy is required. Performance Features: High tensile strength Excellent wear performance Excellent hydrolysis & microbial resistance Good low temperature flexibility Halogen free Flame retardant Matt surface UL 94 Classification V0 Information provided by Huntsman

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Huntsman-IROGRAN-A-85-P-4854-Ether-Based-TPU-For-Cable-Industry.php](http://www.lookpolymers.com/polymer_Huntsman-IROGRAN-A-85-P-4854-Ether-Based-TPU-For-Cable-Industry.php)

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0412 lb/in <sup>3</sup>	ASTM D792
Linear Mold Shrinkage	0.0080 cm/cm	0.0080 in/in	ASTM D955
Melt Index of Compound	150 g/10 min @Load 21.6 kg, Temperature 190 °C	150 g/10 min @Load 47.6 lb, Temperature 374 °F	cm <sup>3</sup> /10 min

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	82	82	ASTM D2240
Hardness, Shore D	35	35	ASTM D2240
Tensile Strength at Break	25.0 MPa	3630 psi	DIN 53504
Elongation at Break	700 %	700 %	DIN 53504
100% Modulus	0.00350 GPa	0.508 ksi	DIN 53504
300% Modulus	0.00750 GPa	1.09 ksi	DIN 53504
Tear Strength	35.0 kN/m	200 pli	ISO 34-1
Abrasion	40	40	mm <sup>3</sup> ; ISO 4549

Thermal Properties	Metric	English	Comments
Flammability, UL94	V-0	V-0	Non-Halogen FR

Processing Properties	Metric	English	Comments
Feed Temperature	25.0 - 40.0 °C	77.0 - 104 °F	Extrusion

Processing Properties	Metric	English	Comments
Nozzle Temperature	170 - 205 °C	338 - 401 °F	Extrusion
	200 - 210 °C	392 - 410 °F	Injection
Adapter Temperature	175 - 200 °C	347 - 392 °F	Extrusion
Die Temperature	175 - 205 °C	347 - 401 °F	Extrusion
Melt Temperature	190 - 205 °C	374 - 401 °F	Injection
Mold Temperature	20.0 - 70.0 °C	68.0 - 158 °F	Injection

Descriptive Properties	Value	Comments
Heating Zone	170-210°C	Injection

## 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