

Termopol Termoton® K4GA4070A TPE Compound, based on SEBS and Polyolefins

Category : Polymer , Thermoplastic , Elastomer, TPE , Olefinic TPE , Styrenic TPE

Material Notes:

Main Characteristics: Wide range of hardness; High strength elasticity; 100% recyclable; Easy processing by means of the traditional technologies for thermoplastic materials; Additional resistance to heat, UV, O, and weathering; Excellent resistance to several chemical agents like bases, acids, alcohols, detergents etc; Transparency-easy coloring; Heat adhesion on rigid polymeric materials like PA, PC, ABS, PMMA, PS, SAN, TPU polymers; High elastic recovery within a wide temperature range; Soft rubbery touch, excellent wet and dry grip; Low compression set even at high temperature; High fatigue resistance; High thermal and electric insulation values; Good abrasion resistance; Many products meet FDA and REACH regulations

Information provided by Termopol Termoplastik Elastomer

Order this product through the following link:

http://www.lookpolymers.com/polymer_Termopol-Termoton-K4GA4070A-TPE-Compound-based-on-SEBS-and-Polyolefins.php

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0412 lb/in ³	ISO 2781
Deformation	50 % @Temperature 700 °C, Time 79200 sec	50 % @Temperature 1290 °F, Time 22.0 hour	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	70	70	ISO 868
Tensile Strength	7.20 MPa	1040 psi	ISO 37
Elongation at Break	650 %	650 %	ISO 37
100% Modulus	0.00370 GPa	0.537 ksi	ISO 37
300% Modulus	0.00450 GPa	0.653 ksi	ISO 37

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	110 °C	230 °F	
Minimum Service Temperature, Air	-50.0 °C	-58.0 °F	
Flammability, UL94	V-0	V-0	

Processing Properties	Metric	English	Comments
Nozzle Temperature	185 °C	365 °F	
Zone 1	160 °C	320 °F	

Zone 2 Processing Properties	170 °C Metric	338 °F English	Comments
Zone 3	180 °C	356 °F	
Mold Temperature	20.0 - 40.0 °C	68.0 - 104 °F	
Drying Temperature	90.0 °C @Time 7200 sec	194 °F @Time 2.00 hour	
Back Pressure	0.340 MPa	49.3 psi	
Screw Speed	25 - 75 rpm	25 - 75 rpm	

Descriptive Properties	Value	Comments
Acid-Base Resistance	Excellent	
Alcohol Resistance	Excellent	
Compression Set	Good	
Injection Pressure	Medium	
Injection Speed	Medium-high	
Motor Oil Resistance	Medium	
Plasticizing Speed	High	
Solvent Resistance	Medium	
UV-Ozone Stability	Excellent	

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