

Sumitomo Chemical ESPOLEX[®] 821 Thermoplastic Elastomer

Category : Polymer , Thermoplastic , Elastomer , TPE

Material Notes:

ESPOLEX[®] TPE Series is a group of thermoplastic elastomers produced by Sumitomo Chemical Company. Among its material advantages, ESPOLEX[®] TPE Series is distinguished by offering many low-density grades that can provide substantial weight and cost savings over higher-density thermoplastic elastomers. In this regard, SUMITOMO CHEMICAL introduces specific gravity as a significant factor in reducing unit cost and weight. Products molded from ESPOLEX[®] TPE Series exhibit rubber-like properties that range from a soft elastic to a semi-hard rubber material. Like all thermoplastic elastomers, ESPOLEX[®] TPE Series offers substantial savings over thermoset rubber in manufacturing since it is processed using standard thermoplastic processing equipment and techniques, and it does not require the vulcanization required by conventional rubbers. Information provided by Sumitomo Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_Sumitomo-Chemical-ESPOLEX-821-Thermoplastic-Elastomer.php

Physical Properties	Metric	English	Comments
Density	0.910 g/cc	0.0329 lb/in ³	ASTM D792
Melt Flow	1.2 g/10 min @Load 2.20 kg	1.2 g/10 min @Load 4.86 lb	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	94	94	0 Sec Delay; ASTM D2240
Hardness, Shore D	40	40	0 Sec Delay; ASTM D2240
Tensile Strength at Break	16.0 MPa	2320 psi	ASTM D412
Elongation at Break	810 %	810 %	ASTM D412
Flexural Modulus	0.0620 GPa	8.99 ksi	ASTM D790
Compression Set	31 % @Temperature 23.0 Â°C	31 % @Temperature 73.4 Â°F	ASTM D395
	71 % @Temperature 70.0 Â°C	71 % @Temperature 158 Â°F	ASTM D395

Processing Properties	Metric	English	Comments
Middle Barrel Temperature	170 - 220 Â°C	338 - 428 Â°F	

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