

ISOLOSS® HD

Polyurethane Thermoset Elastomer

E-A-R Specialty Composites

Message:

ISOLOSS® HD is a thermosetting polyurethane elastomer (TSU) material. This product is available in North America.

ISOLOSS® The main features of HD are:

flame retardant/rated flame

chemical resistance

Creep resistance

Good UV resistance

Radiation resistance

Typical application areas include:

Electrical/electronic applications

engineering/industrial accessories

General Information			
UL YellowCard	E90847-252648		
Features	Shock absorption		
	Shock absorption		
	Anti-gamma radiation		
	Solvent resistance		
	Good UV resistance		
	Good creep resistance		
	Ozone resistance		
	Oil resistance		
Uses	Pump parts		
	Computer components		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.24	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	56		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	4.65	MPa	ASTM D638
Tensile Strength (Yield)	9.79	MPa	ASTM D638
Tensile Elongation (Yield)	420	%	ASTM D638
Compressive Modulus	6.06	MPa	ASTM D695
Elastomers	Nominal Value	Unit	Test Method
Compression Set (70°C)	4.8	%	ASTM D395
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-27.2	°C	ASTM D746

Glass Transition Temperature	-10.0	°C	ASTM E1356
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.1E+12	ohms·cm	ASTM D257
Dielectric Strength	2.4	kV/mm	ASTM D149
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.59 mm)	HB		UL 94
Additional Information			

Compressive modulus was tested in accordance with ASTM D-575.

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