

DiaAlloy FE-40

Polyphenylene Ether

Mitsubishi Rayon America Inc.

Message:

DiaAlloy FE-40 is a Polyphenylene Ether (PPE) material. It is available in North America.

Important attributes of DiaAlloy FE-40 are:

Flame Rated

Heat Resistant

Flame Retardant

Impact Resistant

Typical application of DiaAlloy FE-40: Electrical/Electronic Applications

General Information			
Features	Flame Retardant		
	Good Heat Aging Resistance		
	Good Impact Resistance		
	High Heat Resistance		
Uses	Computer Components		
	Connectors		
UL File Number	E85500		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.09	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.60	%	ASTM D955
Water Absorption (24 hr)	0.14	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	118		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	52.9	MPa	ASTM D638
Tensile Elongation (Yield)	60	%	ASTM D638
Flexural Modulus	2550	MPa	ASTM D790
Flexural Strength (Yield)	98.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-40°C	70	J/m	
-30°C	90	J/m	
23°C	200	J/m	
Unnotched Izod Impact			ASTM D256
-40°C	100	J/m	
23°C	250	J/m	

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	140	°C	
1.8 MPa, Unannealed	125	°C	
Vicat Softening Temperature	150	°C	ASTM D1525
Melting Temperature	240 to 310	°C	
CLTE - Flow	7.0E-5	cm/cm/°C	ASTM D696
Flammability	Nominal Value		Test Method
Flame Rating (1.59 mm)	V-1		UL 94

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