

Rynite® FR515 BK507

THERMOPLASTIC POLYESTER RESIN

DuPont Performance Polymers

Message:

15% Glass Reinforced, Flame Retardant, Polyethylene Terephthalate

General Information			
UL YellowCard	E41938-257732	E41938-257733	
Filler / Reinforcement	Glass Fiber,15% Filler by Weight		
Agency Ratings	UL Unspecified Rating		
Processing Method	Injection Molding		
Part Marking Code (ISO 11469)	>PET-GF15FR<		
Resin ID (ISO 1043)	PET-GF15FR(17)		
Physical	Nominal Value	Unit	Test Method
Density	1.55	g/cm³	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	6140	MPa	ISO 527-2
Tensile Stress (Break)	100	MPa	ISO 527-2
Tensile Strain (Break)	2.2	%	ISO 527-2
Flexural Modulus	6000	MPa	ISO 178
Flexural Stress	160	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-40°C	6.0	kJ/m²	
23°C	6.2	kJ/m²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-40°C	20	kJ/m²	
23°C	32	kJ/m²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	238	°C	ISO 75-2/B
1.8 MPa, Unannealed	200	°C	ISO 75-2/A
Melting Temperature ¹	254	°C	ISO 11357-3
CLTE			ISO 11359-2
Flow	2.9E-5	cm/cm/°C	
Flow : -40 to 23°C	3.3E-5	cm/cm/°C	
Flow : 55 to 160°C	1.9E-5	cm/cm/°C	
Transverse	9.5E-5	cm/cm/°C	
Transverse : -40 to 23°C	7.4E-5	cm/cm/°C	
Transverse : 55 to 160°C	1.3E-4	cm/cm/°C	

Flammability	Nominal Value	Test Method
Flammability Classification		IEC 60695-11-10, -20
0.860 mm	V-0	
1.50 mm	5VA	
NOTE		
1.	10°C/min	

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