Rynite® 415HP NC010

THERMOPLASTIC POLYESTER RESIN

DuPont Performance Polymers

Message:

15% Glass Reinforced Polyethylene Terephthalate with Excellent Impact Resistance

General Information	
UL YellowCard	E41938-257696
Filler / Reinforcement	Glass Fiber,15% Filler by Weight
Additive	Mold Release
Agency Ratings	UL Unspecified Rating
Forms	Pellets
Processing Method	Injection Molding
Multi-Point Data	Isothermal Stress vs. Strain (ISO 11403-1) Secant Modulus vs. Strain (ISO 11403-1) Shear Modulus vs. Temperature (ISO 11403-1) Shear Stress vs. Shear Rate (ISO 11403-1) Tensile Modulus vs. Temperature, Dynamic (ISO 11403-1) Viscosity vs. Shear Rate (ISO 11403-2)
Part Marking Code (ISO 11469)	>PET-IGF15<
Resin ID (ISO 1043)	PET-IGF15

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.39	g/cm³	ASTM D792, ISO 1183
Melt Volume-Flow Rate (MVR) (280°C/2.16 kg)	4.00	cm³/10min	ISO 1133
Molding Shrinkage			ISO 294-4
Across Flow [1]	1.2	%	
Across Flow	0.80	%	
Flow	0.30	%	
Flow [2]	0.50	%	
Water Absorption			ISO 62
23°C, 24 hr, 2.00 mm	2.5	%	
Equilibrium, 23°C, 2.00 mm, 50% RH	0.25	%	

Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			ISO 2039-2
M-Scale	58		
R-Scale	111		

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	4700	MPa	ISO 527-2

Tensile Stress (Break)	79.0	MPa	ISO 527-2
Tensile Strain (Break)	5.0	%	ISO 527-2
Flexural Modulus	3550	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	8.0	kJ/m^2	
23°C	11	kJ/m^2	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	25	kJ/m^2	
23°C	55	kJ/m^2	
Notched Izod Impact Strength			ISO 180/1A
-30°C	7.7	kJ/m^2	
23°C	13	kJ/m^2	
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature			
0.45 MPa, Unannealed	235	°C	ISO 75-2/B
1.8 MPa, Unannealed	207	°C	ISO 75-2/A
Vicat Softening Temperature	205	°C	ISO 306/B50
Melting Temperature [3]	250	°C	ISO 11357-3
CLTE			ISO 11359-2
Flow	2.0E-5	cm/cm/°C	
Flow : -40 to 23°C	9.8E-5	cm/cm/°C	
Flow : 55 to 160°C	1.1E-4	cm/cm/°C	
Transverse	1.2E-4	cm/cm/°C	
Transverse : -40 to 23°C	4.0E-5	cm/cm/°C	
Transverse : 55 to 160°C	3.2E-5	cm/cm/°C	
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	1.0E+13	ohms	IEC 60093
Volume Resistivity	1.0E+13	ohms·cm	IEC 60093
Comparative Tracking Index (CTI)	PLC 2		UL 746
Comparative Tracking Index	350	V	IEC 60112
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flammability Classification			IEC 60695-11-10, -20
0.750 mm	HB		
1.50 mm	HB		
Oxygen Index	19	%	ISO 4589-2
NOTE			
1.	Annealed		
2.	Annealed		
3.	10°C/min		

infringement occurs, please contact us immediately.

Recommended distributors for this material

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