General information	Value	Unit	Test Standard
Resin Identification	PET-GF25FR(16)	-	ISO 1043
Part Marking Code	. ,	-	ISO 11469
heological properties	Value	Unit	Test Standard
Molding shrinkage, parallel	0.2	%	ISO 294-4, 2577
Molding shrinkage, normal	0.8	%	ISO 294-4, 2577
Melt viscosity, @ 1000 sec-1, 280°C	205	Pa s	ISO 11443
Nechanical properties	Value		Test Standard
Tensile Modulus	11000	MPa	ISO 527-1/-2
Stress at break	155	MPa	ISO 527-1/-2
Strain at break	2	%	ISO 527-1/-2
Charpy impact strength, 73°F	40	kJ/m²	ISO 179/1eU
Charpy impact strength, 73 °F	10	kJ/m²	ISO 179/1eA
hermal properties	Value		Test Standard
Melting temperature, 18°F/min	250	°C	ISO 11357-1/-3
Temp. of deflection under load, 260 psi	230	°C	ISO 75-1/-2
RTI, electrical	230		UL 746B
30mil	140	°C	OL 740B
120mil	140	°C	
RTI, strength	140	<u> </u>	UL 746B
, 3	140	°C	UL 740D
30mil 120mil	140 140	°C	
			Task Chair dayid
lammability	Value		Test Standard
Burning Behav. at thickness h		class	IEC 60695-11-10
Thickness tested	0.8	mm	IEC 60695-11-10
UL recognition	yes	-	UL 94
FMVSS Class	<u>B</u>	-	ISO 3795 (FMVSS 302)
Burning rate, Thickness 1 mm	<100	mm/min	ISO 3795 (FMVSS 302)
lectrical properties	Value		Test Standard
Comparative tracking index	_00	-	IEC 60112
ther properties	Value		Test Standard
Density	1650		ISO 1183
njection	Value	Unit	Test Standard
Drying Recommended	yes	-	-
Drying Temperature	120	°C	-
Drying Time, Dehumidified Dryer	4 - 6	h	-
Processing Moisture Content	≤0.02 ^[1]	%	-
Melt Temperature Optimum	280	°C	-
Min. melt temperature	270	°C	-
Max. melt temperature	290	°C	-
Max. screw tangential speed	0.2	m/s	-
Mold Temperature Optimum	140	°C	-
Min. mold temperature	120	°C	-
Max. mold temperature	140 ^[2]	°C	-
Hold pressure range	≥80	MPa	-
Hold pressure time	4	s/mm	-
Back pressure	As low as possible		-

^{1:} At levels above 0.02%, strength and toughness will decrease, even though parts may not exhibit surface defects. 2: (6mm - 1mm thickness)

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Characteristics			
Processing	 Injection Molding 		
Delivery form	 Pellets 		
Additives	Release agent		
Regional Availability	Europe	Near East/Africa	

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Chemical Media Resistance

Acids

Acetic Acid (5% by mass) (23°C)

Citric Acid solution (10% by mass) (23°C)

Lactic Acid (10% by mass) (23°C)

Hydrochloric Acid (36% by mass) (23°C)

Nitric Acid (40% by mass) (23°C)

Sulfuric Acid (38% by mass) (23°C)

Sulfuric Acid (5% by mass) (23°C)

Chromic Acid solution (40% by mass) (23°C)

Bases

Sodium Hydroxide solution (35% by mass) (23°C)

Sodium Hydroxide solution (1% by mass) (23°C)

Ammonium Hydroxide solution (10% by mass) (23°C)

Alcohols

✓ Isopropyl alcohol (23°C)

✓ Methanol (23°C)

Ethanol (23°C)

Hydrocarbons

√ n-Hexane (23°C)

✓ Toluene (23°C)

√ iso-Octane (23°C)

Ketones

Acetone (23°C)

Ethers

✓ Diethyl ether (23°C)

Mineral oil

SAE 10W40 multigrade motor oil (23°C)

SAE 10W40 multigrade motor oil (130°C)

SAE 80/90 hypoid-gear oil (130°C)

Insulating Oil (23°C)

Standard Fuels

√ ISO 1817 Liquid 1 - E5 (60°C)

ISO 1817 Liquid 2 - M15E4 (60°C)

ISO 1817 Liquid 3 - M3E7 (60°C)

/ ISO 1817 Liquid 4 - M15 (60°C)

Standard fuel without alcohol (pref. ISO 1817 Liquid C) (23°C)

✓ Standard fuel with alcohol (pref. ISO 1817 Liquid 4) (23°C)

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Diesel fuel (pref. ISO 1817 Liquid F) (23°C)

Diesel fuel (pref. ISO 1817 Liquid F) (90°C)

Diesel fuel (pref. ISO 1817 Liquid F) (>90°C)

Salt solutions

Sodium Chloride solution (10% by mass) (23°C)

Sodium Hypochlorite solution (10% by mass) (23°C)

Sodium Carbonate solution (20% by mass) (23°C)

Sodium Carbonate solution (2% by mass) (23°C) Zinc Chloride solution (50% by mass) (23°C)

Ethyl Acetate (23°C)

Hydrogen peroxide (23°C)

DOT No. 4 Brake fluid (130°C)

Ethylene Glycol (50% by mass) in water (108°C)

1% nonylphenoxy-polyethyleneoxy ethanol in water (23°C)

50% Oleic acid + 50% Olive Oil (23°C)

Water (23°C)

Water (90°C)

Phenol solution (5% by mass) (23°C)

Symbols used:

✓ possibly resistant

Defined as: Supplier has sufficient indication that contact with chemical can be potentially accepted under the intended use conditions and expected service life. Criteria for assessment have to be indicated (e.g. surface aspect, volume change, property change).



not recommended - see explanation

Defined as: Not recommended for general use. However, short-term exposure under certain restricted conditions could be acceptable (e.g. fast cleaning with thorough rinsing, spills, wiping, vapor exposure).

Contact DuPont for Material Safety Data Sheet, general guides and/or additional information about ventilation, handling, purging, drying, etc. ISO Mechanical properties measured at 160 mil (Hytrel® measured at 80 mil), IEC Electrical properties measured at 80 mil, all ASTM properties measured at 120 mil, and test temperatures are 73°F unless otherwise stated.

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