

DuPont™ Rynite® PET

thermoplastic polyester resin

DEVELOPMENTAL SAMPLE

Rynite® 540SUV BK544

Rynite® 540SUV BK544 is a 40% glass fiber reinforced, UV stabilized, modified polyethylene terephthalate resin for injection molding and extrusion. It has a high stiffness and was developed for long-term outdoor applications.

Property	Test Method	Units	Value
Identification			
Resin Identification	ISO 1043		PET-GF40
Part Marking Code	ISO 11469		>PET-GF40<
Mechanical			
Stress at Break	ISO 527	MPa (kpsi)	162 (23.5)
Strain at Break	ISO 527	%	2.6
Tensile Modulus	ISO 527	MPa (kpsi)	12882 (1867)
Notched Charpy Impact Strength	ISO 179/1eA	kJ/m ²	8.8
Unnotched Charpy Impact Strength	ISO 179/1eU	kJ/m ²	49
Other			
Density	ISO 1183	kg/m ³ (g/cm ³)	1640 (1.64)
Molding Shrinkage	ISO 294-4	%	
Normal, 2.0mm			0.9
Parallel, 2.0mm			0.2

Contact DuPont for Material Safety Data Sheet, general guides and/or additional information about ventilation, handling, purging, drying, etc

ISO Mechanical properties measured at 4.0mm, ISO Electrical properties measured at 2.0mm, and all ASTM properties measured at 3.2mm.

Test temperatures are 23°C unless otherwise stated.

Shrinkage generated per ISO 294-4 based on 60 X 60mm end-gated plaques or ASTM D 955 based on 76 X 127mm (3 X 5in) end-gated plaques

The above data are for the developmental sample and are subject to change as the product is scaled up.

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Rynite® 540SUV BK544

Property	Test Method	Units	Value
Processing			
Melt Temperature Range		°C (°F)	280-300 (535-570)
Melt Temperature Optimum		°C (°F)	285 (545)
Mold Temperature Range		°C (°F)	>95 (>205)
Mold Temperature Optimum		°C (°F)	110 (230)
Drying Time, Dehumidified Dryer		h	4
Drying Temperature		°C (°F)	120 (250)
Processing Moisture Content		%	<0.02

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