



Description

Revolve PA RDN is a rotational moulding polyamide 6 (PA6) designed to meet demanding requirements such as chemical resistance and low permeation to hydrocarbons (e.g. petrol). The grade exhibits very high stiffness, good flow characteristics and high temperature resistance. The grade does not require any inert atmosphere during moulding and it is UV8 stabilised.



Features and Benefits

- High stiffness and hardness
- Good mouldability
- Low permeability to hydrocarbons
- Suitable for constant use up to 150°C
- UV 8

Available as,

- Pre-dried natural powder

Typical applications:

- Fuel tanks
- Chemical tanks
- Hydraulic tanks



Physical Properties

PHYSICAL PROPERTIES

TEST METHOD

VALUE

UNIT

Density	ISO 1183	1.110	g/cm ³
Elongation at Break (50 mm/min)	ISO 527	25	%
Flexural Modulus (1.3 mm/min)	ISO 178	2600	MPa
Tensile Strength @ Yield (50mm/min)	ISO 527	70	MPa
HDT at 0.45 MPa	ISO 75-2	160	°C
HDT at 1.8 MPa	ISO 75-3	65	°C
Vicat (50 N - 50°C/h)	ISO 306	190	°C
Melting Temperature (DSC)	ISO 11357-1	223	°C
ARM Impact (23°C, 3 mm thickness)	ARM-I Standard	50	J
Charpy notched (23 °C)	ISO 179	5.5	kJ/m ²
Flammability (3.2 mm)	UL 94	V2	n/a

*Test specimens prepared by rotational moulding

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