



Description

Revolve PA 12 is a rotational moulding polyamide 12 (Nylon) designed to meet demanding requirements such as chemical resistance and low permeation to hydrocarbons (e.g. petrol). The grade exhibits high stiffness, good impact strength, low moisture absorption, high temperature and good mouldability.



Features and Benefits

- High stiffness and hardness
- Good mouldability
- Excellent impact strength
- Low permeability to hydrocarbons
- Suitable for constant use up to 120°C
- UV 8 stabilised

Available as,

- Pre-dried natural powder

Typical applications:

- Fuel tanks
- Chemical tanks
- Hydraulic tanks



Physical Properties

PHYSICAL PROPERTIES	TEST METHOD	VALUE	UNIT
MFI	ISO 1133	N/A	g/10min
Density	ISO 1183	1.050	g/cm ³
Tensile strength @ Yield (50 mm/min)	ISO 527	43.5	MPa
Elongation at Break	ISO 527	250	%
Flexural Modulus (1.3 mm/min)	ISO 178	1250	MPa
HDT at 0.45 MPa	ISO 75-2	130	°C
HDT at 1.8 MPa	ISO 75-3	45	°C
g/10minESCR at 100% Igepal	ASTM D1693	N/A*	hr
g/10minESCR at 10% Igepal	ASTM D1693	N/A*	hr
ARM Impact (23°C, 3 mm thickness)	ARM-I Standard	85	J

* Test has no effect on PA12

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