Pro-fax SE012

Polypropylene, Impact Copolymer

Product Description

Pro-fax SE012 low melt flow, electrical grade polypropylene copolymer resin has outstanding toughness, flex-life and abrasion resistance. This resin demonstrates good processing behavior and is tailored for production of heavy- and thin-walled constructions. Other features include excellent electrical and physical properties, resistance to stress-cracking, solvent and chemical resistance, good colorability, high yields due to low specific gravity, and proven life in the presence of copper.
All ingredients of *Pro-fax* SE012 meet the chemical registration requirements of TSCA (U.S.) and DSL (Canada).
Typical applications include oil well logging cables, data cables and heavier wall insulation.

Product Characteristics

Status	Commercial: Active
Test Method used	ISO
Availability	North America
Features	Good Abrasion Resistance , Good Chemical Resistance, Good Colorability, Copolymer, Good Dimensional Stability, Good Electrical Properties, High ESCR (Environmental Stress Cracking Resistance), Fatigue Resistant, Low Flow , Good Heat Aging Resistance , Machinable, Good Processability, Solvent Resistant, Good Toughness, Low to No Water Absorption
Typical Customer Applications	Other Industrial, Wire & Cable

Typical Properties	Method	Value	Unit
Physical			
Density	ISO 1183	0.90	g/cm³
Melt flow rate (MFR) (230°C/2.16Kg)	ISO 1133	1.5	g/10 min
Note: Alternative test method is ASTM D 1238-01.			
Mechanical			
Tensile Stress at Yield	ISO 527-1, -2	25	MPa
Tensile Strain at Yield	ISO 527-1, -2	10	%
Flexural modulus	ISO 178	1000	MPa
Impact			
Notched izod impact strength (23 °C)	ISO 180	34	kJ/m²
Thermal			
Heat deflection temperature B (0.45 MPa) Unannealed	ISO 75B-1, -2	78	°C

Additional Properties

Environmental Stress-Cracking Resistance, REA PE-210: >1,000 hrs
Thermal Stress-Cracking Resistance, REA PE-210: > 1,000 hrs
Drop Weight Impact Strength, Basell Test Method, -20°F: 23 ft-lbs

Notes

Typical properties; not to be construed as specifications.