SUMITOMO CHEMICAL ASIA

Product Data Sheet - PROVISIONAL

SUMITOMO POLYETHYLENE HDPE

P0648N

High Density, Extrusion Pipe (Natural, PE-100 Designated)

Applications	For natural and coloured pressure pipe extrusion (e.g. water and gas distribution systems), pipe and vessel lining, and moulded pipe fitting.
Characteristics	Bimodal extrusion grade in natural-coloured pellet, with outstanding ESCR and high impact strength. Outstanding hydrostatic strength, suitable for PE-100 rating applications.
Typical Processing Conditions	Extrusion temperature : 190°C - 220°C

Typical Properties

Physical		Value	Unit	Method
Melt Index	5.0kg	0.23	g/10min	ISO 1133
	21.6kg	6.2		
Density		0.948	g/cm^3	ISO 1183
Mechanical		**Value**	**Unit**	**Method**
Tensile Stress	at Yield	23	MPa	ISO 527
	at Break	36		
Tensile Elongation	at Yield	10	%	ISO 527
	at Break	> 1000		
Tensile Modulus	23°C, 1mm/min	850	MPa	ISO 527
Flexural Creep Modulus	4 point, 1min	1050	MPa	DIN 19537-2
Impact Strength	23°C	25	kJ/m^2	ISO 179/1eA
Shore Hardness-D		64		ISO 868
Thermal		**Value**	**Unit**	**Method**
Softening Temperature		74	°C	ISO 306
Brittle Temperature		< -80	°C	ASTM D4746-72
Other		**Value**	**Unit**	**Method**
ESCR in Full Notch Creep Test	80°C	800	h@4.0 MPa	ISO CD 16770
Notch Test	SCG	1000	h@4.6 MPa	ISO DIS 13479
Small Scale Steady State (S4) Test	RCP	Pc > 20	bar	ISO DIS 13477
Hydrostatic Strength Test	80°C	> 15000	h@4.6 MPa	ISO 1167

The values shown are typical values measured on the product and are not to be considered as guaranteed specifications, actual test results may vary

Manufacturer
P0648N is manufactured in Saudi Arabia by Rabigh Refining & Petrochemical Co. (Petro Rabigh).
Petro Rabigh is an ISO 9001, ISO 14001, and ISO 45001 certified company.

Regulatory Compliances
Evaluation on pressure pipe rating and common regulatory compliances on P0648N will be verified by accredited third party laboratories soon after commercial production.
Please contact your nearest SCA representative for more information.

Restriction of Hazardous Substances
The substances regulated under EU Directive 2011/65/EC, and its amendments, on RoHS in electrical and electronic equipment are not used in the manufacturing proces, and are therefore not expected to be present in the product.

Storage and Handling
P0648N is supplied in 25kg bags or in bulk containers. It is advisable to store in a well-ventilated storage facility, protected from rain, direct exposure to sunlight, temperature, and dust.
Moisture may accumulate inside the packaging if there is a significant fluctuation in ambient temperature and high relative humidity. If this occurs, customer is strongly advised to dry the resin prior to use. Direct exposure to sunlight and excessive ambient temperature may affect the properties, appearance, and odour characteristic of the resin.
It is recommended to process P0648N within 6 months upon receipt.
Please refer to the Safety Data Sheet (SDS) for information regarding industrial health and safety issues.

Disposal and the Environment
SCA prioritises environmental management in all our operations in responsibility and respect towards the community and the environment.
Unmodified P0648N is readily recyclable, both for reuse via reprocessing and for energy reclamation through incineration. If disposed in landfills, our products, which are inert materials, do not pose pollution risks since they do not generate gaseous or liquid emissions.

Office Locations

SUMITOMO CHEMICAL ASIA PTE LTD
3 Fraser Street, #07-28 DUO Tower, SINGAPORE 189352
Phone +65 6303 5188 Fax +65 6298 9621 Web Site www.sumitomo-chem.com.sg

SUMIKA PLASTICS AND CHEMICALS TRADING (SHANGHAI) CO., LTD.
1607, Ascendas Plaza, 333 Tian Yao Qiao Road, Xu Hui District, Shanghai, CHINA 200030
Phone +86 21 6448 2255 Fax +86 21 6407 7365

SUMIKA PLASTICS AND CHEMICALS TRADING (SHANGHAI) CO., LTD., GUANGZHOU BRANCH
Room 6404, Office Building, CITIC Plaza, No.233, North Tianhe Road, Guangzhou City, CHINA 510613
Phone +86 20 3877 3577 Fax +86 20 3877 3511

SUMITOMO CHEMICAL EUROPE S.A./N.V.
Woluwelaan, 57, B-1830 Machelen, BELGIUM
Phone +32 2 251 0650 Fax +32 2 251 2991 Web Site sumitomochemicaleurope.eu

SUMITOMO CHEMICAL EUROPE N.V.
Turkey Liaison Office, Barbaros Mah. Cigdem Sok. No:1, Agaoglu My Office K:10, D:44-45, 34746 Bati Atasehir, Istanbul, TURKEY
Phone +90 216 680 3334 Fax +90 216 680 1012

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