# Promyde® B40

### Polyamide 6

NUREL, S.A.

#### Message:

Promyde<sup>®</sup> B40 is a Polyamide 6 grade of high viscosity suitable for extrusion applications in general like high tenacity yarns, corrugated tubes and certain compounding applications.

Compounding High Tenacity Flat Yarn Tubing Coessing Method Compounding Extrusion Nominal Value Physical Nominal Value I.1.3 Page Method I.1.3 Page Method I.1.3 Page Method Internal Method Internal Method ISO 62 Internal Method ISO 62 Internal Method ISO 62 Internal Method ISO 62 Internal Method ISO 62 Internal Method ISO 62 Internal Method ISO 1628 Internal Method ISO 1628 Internal Method ISO 1628 Internal Method ISO 1628 Internal Method ISO 1628 Internal Method ISO 1628 ISO 1628 Internal Method ISO 1628 ISO 1	General Information			
High Tenacity Flat Yam Tubing         Tubing         rocessing Method       Compounding Extrusion         hysical       Nominal Value       Unit       Test Method         nensity       Nominal Value       Jorn <sup>3</sup> ISO 1148         paparen Density <sup>1</sup> 0.69       g/cm <sup>3</sup> Iso 1148         (Ater Absorption       Jorn       Iso 262       Iso 262         Saturation, 23°C, 50% RH       3.0       %       Iso 1148         loisture Content <sup>2</sup> 0.90       %       Iso 1148         loisture Oscosity <sup>3</sup> (25°C)       3.90 to 4.10       %       Iso 1148         loisture Viscosity <sup>3</sup> (25°C)       3.90 to 4.10       Minal Method       Iso 162         loisture Oscosity <sup>3</sup> (25°C)       3.90 to 4.10       Minal Method       Iso 162         loinomers       <.060       Mand       Iso 162         loinomers       <.060       %       Iso 164         OTE       Iso 140       Iso 140       Iso 140         COTE       Iso 140       Iso 140       Iso 140         Iso 140       Iso 140       Iso 140       Iso 140         OTE       Iso 140       Iso 140       Iso 140         Iso 140       Iso 140       Iso 140 </th <th>Features</th> <th colspan="3">High Viscosity</th>	Features	High Viscosity		
Tubing         rocessing Method       Compounding Extrusion         hysical       Nominal Value       Unit       Test Method         ensity       1.13       g/cm³       ISO 1148         paparent Density <sup>1</sup> 0.69       g/cm³       Internal Method         later Absorption       JO       %       ISO 62         Saturation, 23°C       9.0       %       ISO 148         loigture Content <sup>2</sup> 0.010       %       ISO 62         loigture Content <sup>2</sup> 0.010       %       ISO 162         loigture Content <sup>2</sup> 0.010       %       ISO 162         loigture Content <sup>2</sup> 0.010       %       Iso 1628         loigture Content <sup>2</sup> 0.010       %       Iso 1628         loigture Content <sup>2</sup> 0.020       mm       Internal Method         loigture Content <sup>2</sup> 0.600       Mm       Iso 1628         loigture Gontent <sup>2</sup> 0.600       %       Iso 1628         loigture Gontent Content (DSC)       200       °C       Iso 1640         loigture Gontent Content (DSC)       200       %       Iso 1640         loigture Gontent Content (DSC)       200       °C       Iso 1640 <td< td=""><td>Uses</td><td colspan="3">Compounding</td></td<>	Uses	Compounding		
coressing Method       Compounding Extrusion         hysical       Nominal Value       Unit       Test Method         ensity       1.13       g/cm³       ISO 1148         pparent Density <sup>1</sup> 0.69       g/cm³       Internal Method         fater Absorption       J       ISO 62       ISO 62         Saturation, 23°C, 50% RH       3.0       %       ISO 1628         loisture Content <sup>2</sup> <0.10		High Tenacity Flat Yarn		
Extrusion           hysical         Nominal Value         Unit         Test Method           ensity         1.13         g/cm³         ISO 1148           paparent Density <sup>1</sup> 0.69         g/cm³         Internal Method           Atter Absorption         JO         %         Staturation, 23°C         9.0         %           Equilibrium, 23°C, 50% RH         3.0         %         Staturation, 23°C         9.0         %           Equilibrium, 23°C, 50% RH         3.0         %         Staturation, 23°C         9.0         %           Equilibrium, 23°C, 50% RH         3.0         %         Staturation, 23°C         Staturation, 23°C         Staturation, 23°C         %           Equilibrium, 23°C, 50% RH         3.0         %         Staturation, 23°C         Sto 1628           Equilibrium, 23°C, 50% RH         3.0         %         Sto 1628         Sto 1628           Iolosture Content <sup>2</sup> <0.10		Tubing		
Extrusion           hysical         Nominal Value         Unit         Test Method           ensity         1.13         g/cm³         ISO 1148           paparent Density <sup>1</sup> 0.69         g/cm³         Internal Method           Atter Absorption         JO         %         Staturation, 23°C         9.0         %           Equilibrium, 23°C, 50% RH         3.0         %         Staturation, 23°C         9.0         %           Equilibrium, 23°C, 50% RH         3.0         %         Staturation, 23°C         9.0         %           Equilibrium, 23°C, 50% RH         3.0         %         Staturation, 23°C         Staturation, 23°C         Staturation, 23°C         %           Equilibrium, 23°C, 50% RH         3.0         %         Staturation, 23°C         Sto 1628           Equilibrium, 23°C, 50% RH         3.0         %         Sto 1628         Sto 1628           Iolosture Content <sup>2</sup> <0.10				
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Product         Initial         g/cm³         ISO 1148           pparent Density <sup>1</sup> 0.69         g/cm³         Internal Method           /ater Absorption         ISO 62         ISO 62           Saturation, 23°C         9.0         %         Internal Method           Equilibrium, 23°C, 50% RH         3.0         %         Internal Method           loisture Content <sup>2</sup> <0.10		Extrusion		
pparent Density <sup>1</sup> 0.69 0,69 0,69 0,69 0,69 0,69 0,69 0,69 0,	Physical	Nominal Value	Unit	Test Method
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Saturation, 23°C9.0%Equilibrium, 23°C, 50% RH3.0%Ioisture Content 2< 0.10	Apparent Density <sup>1</sup>	0.69	g/cm³	Internal Method
Equilibrium, 23°C, 50% RH3.0%Ioisture Contert 2< 0.10	Water Absorption			ISO 62
Initial data of the second	Saturation, 23°C	9.0	%	
lelative Viscosity <sup>3</sup> (25°C) 3.90 to 4.10 Internal Method hip Size <sup>4</sup> 2.50 mm Internal Method lonomers <0.60 % ISO 599 hermal Nominal Value Unit Test Method lelting Temperature (DSC) 220 °C ISO 3146 OTE ISO 3146 NAPPA-059 NAPPA-032 ISO 314 NAPPA-032	Equilibrium, 23°C, 50% RH	3.0	%	
hip Size <sup>4</sup> 2.50 mm Internal Method Ionomers <0.60 % ISO 599 Ionomers 20.60 % Ionomers 20.7 Moninal Value Unit Test Method Test Method 20.7 Moninal Value 20.7 °C Ionomers ISO 3146 Ionomers 20.7 MAPPA-059 ISO 3146 Ionomers 20.7 MAPPA-032 Ionomers 20.7 MAPPA-032 Ionomers 20.7 Moninal Value Ionomers 20.7 Monina	Moisture Content <sup>2</sup>	< 0.10	%	Internal Method
Ionomers< 0.60%ISO 599hermalNominal ValueUnitTest Methodlelting Temperature (DSC)220°CISO 3146OTE </td <td>Relative Viscosity <sup>3</sup> (25°C)</td> <td>3.90 to 4.10</td> <td></td> <td>ISO 1628</td>	Relative Viscosity <sup>3</sup> (25°C)	3.90 to 4.10		ISO 1628
hermalNominal ValueUnitTest Methodlelting Temperature (DSC)220°CISO 3146OTE </td <td>Chip Size<sup>4</sup></td> <td>2.50</td> <td>mm</td> <td>Internal Method</td>	Chip Size <sup>4</sup>	2.50	mm	Internal Method
Ielting Temperature (DSC)       220       °C       ISO 3146         OTE       NAPPA-059           Image: NAPPA-032       NAPPA-032           1% m/v in 96% m/m sulfuric acid	Monomers	< 0.60	%	ISO 599
OTE NAPPA-059 NAPPA-032 1% m/v in 96% m/m sulfuric acid	Thermal	Nominal Value	Unit	Test Method
NAPPA-059           NAPPA-032           1% m/v in 96% m/m sulfuric acid	Melting Temperature (DSC)	220	°C	ISO 3146
NAPPA-032 1% m/v in 96% m/m sulfuric acid	NOTE			
1% m/v in 96% m/m sulfuric acid	1.	NAPPA-059		
	2.	NAPPA-032		
NAPPA-045	3.	1% m/v in 96% m/m sulfuric acid		
	4.	NAPPA-045		

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## Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

