

EX Series – Extrusion

TYPICAL APPLICATIONS:

- seals and sealing profiles for windows and doors
- coextrusion (hard/soft combinations)

alternative material to PVC-P
good weldability
wide range of hardness available
easy to colour

EX Series¹ – Standard compounds for extrusion, natural with adhesion to polypropylene

	Colour	Hardness DIN EN ISO 1183-1:2004 Sh A	Density DIN 53479 g/cm ³	Tensile strength ^{2,3} DIN 53504 / ISO 37 N/mm ²	Tear resistance ISO 34-1 method B (b) (Graves) N/mm	Elongation at break ³ DIN 53504 / ISO 37 %	Compression Set ² ISO 815 %			
							22h/ 100°C	22h/ -25°C	22h/ 70°C	72h/ 23°C
TP3CDB	natural	30	1.15	3.5	90.0	500.0	70.0	70.0	35.0	10.0
TP4CDB	natural	40	1.19	4.0	140.0	500.0	70.0	70.0	35.0	15.0
TP5CDB	natural	50	1.19	4.0	150.0	550.0	75.0	75.0	45.0	15.0
TP6CDB	natural	60	1.19	4.0	160.0	500.0	75.0	80.0	45.0	20.0
TP7CDB	natural	70	1.18	5.0	170.0	500.0	85.0	85.0	50.0	30.0
TP8CDB	natural	80	1.18	5.5	230.0	500.0	85.0	85.0	70.0	30.0
TP9CDB	natural	90	1.16	6.0	210.0	500.0	90.0	90.0	85.0	35.0

¹ Not recommended for outdoor use; for appropriate grades see EX/UV series.

² To define the physical figures the test pieces were out of from extruded tapes.

³ Deviating from ISO 37 standard test piece S2 is tested with a traverse speed of 200 mm/min.

This datasheet is an extract of the KRAIBURG TPE program. Please contact KRAIBURG TPE to select the compound suitable for your requirements.

Remark:

The information provided in this documentation corresponds to our knowledge on the subject at the date of its publication. This information may be subject to revision as new knowledge and experience becomes available. The results of our tests are determined by sample check and mean only a technical description of our products. It shall not absolve the customer of the responsibility to make tests for his intended process or purpose. Therefore, KRAIBURG TPE makes no warranties and assumes no liability in connection with any use of this information.

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EX Series – Extrusion

EX Series¹ – Standard compounds for extrusion, natural with adhesion to polyethylene

	Colour	Hardness DIN EN ISO 1183-1:2004 Sh A	Density DIN 53479 g/cm ³	Tensile strength ^{2,3} DIN 53504 / ISO 37 N/mm ²	Tear resistance ISO 34-1 method B (b) (Graves) N/mm	Elongation at break ^{2,3} DIN 53504 / ISO 37 %	Compression Set ² ISO 815 %		
							22h/ -25°C	22h/ 70°C	72h/ 23°C
TP5CDE	natural	49	1.17	5.1	20.0	727.0	72.0	60.0	15.0
TP6CDE	natural	57	1.16	5.9	24.0	754.0	62.0	62.0	11.0

EX Series¹ – Standard compounds for extrusion, black with adhesion to polypropylene

	Colour	Hardness DIN 53505 Sh A/D	Density DIN 53479 g/cm ³	Tensile strength ^{2,3} DIN 53504 N/mm ²	Tear resistance DIN ISO 34-1 Methode B (Graves) N/mm	Elongation at break ^{2,3} DIN 53504 %	Compression Set ² ISO 815 %			
							22h/ 100°C	22h/ -25°C	22h/ 70°C	72h/ 23°C
TP3CDZ	black	30	1.15	4.0	9.0	500.0	70.0	70.0	40.0	10.0
TP4CDZ	black	40	1.19	4.5	12.0	500.0	70.0	70.0	40.0	10.0
TP5CDZ	black	50	1.19	4.5	15.0	550.0	70.0	70.0	40.0	15.0
TP6CDZ	black	60	1.18	5.0	16.0	550.0	75.0	75.0	45.0	20.0
TP7CDZ	black	70	1.18	5.0	18.0	500.0	85.0	85.0	55.0	25.0
TP8CDZ	black	80	1.18	5.5	24.0	500.0	85.0	85.0	70.0	30.0
TP9CDZ	black	90	1.16	6.0	22.0	500.0	90.0	90.0	85.0	35.0

¹ Not recommended for outdoor use; for appropriate grades see EX/UV series.

² To define the physical figures the test pieces were out of from extruded tapes.

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MATERIAL ADVANTAGES:

- no interaction with other materials (e.g. PVC-U, PP, PS, ABS, POM, PA, PC, PMMA)
- natural compounds easy to colour
- good physical properties
- smooth surface
- adhesion to PP/PE
- weldable
- resistant to acrylic paints
- service temperature: -40°C to +70°C
- halogen-free
- recyclable

PROCESSING:

- standard extruders (e.g. universal or polyolefine extruder 25D) are recommended
- processing temperature for 30 – 55 Shore A: 140°C to 160°C (max. 210°C)
- processing temperature for 60 – 90 Shore A: 160°C to 180°C (max. 220°C)
- screw must be able to provide sufficient shearing (breaker plate and screen pack are recommended)
- also injection moulding possible

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